

<110>	Cheikh, Nordine Liu, Jingdong
<120>	Nucleic Acid Molecules and Other Molecules Associated with the Cytokinin Pathway
<130>	16517.256/38-21(15094)C
<150>	US 60/067,000
<151>	1997-11-24
<150>	US 60/069,472
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<211>	254
<212>	DNA
<213>	Zea mays
<220>	
<221>	unsure
<222>	(1)...(254)
<223>	unsure at all n locations

gcagtcccgt gaatggga 318

<210> 4
 <211> 279
 <212> DNA
 <213> Zea mays

<400> 4

gttccaggac atcacgacac tgctgctcga ccccaaggcg ttccgtgaca ccatcgacct 60
 cttcgttgag cgggtacaagg accaagggat caccgtagtt gctgggtgtgg aagctagagg 120
 gttcattttt ggtcctccta tcgctcttac gatcgggtgct aaatttgtac ctttgaggaa 180
 gccgaagaag ttgccaggcg aggtgatctc cgaagaatat tctctggaat acggaactga 240
 caagatagag atgcatgttg gagctgtaca ggccaacga 279

<210> 5
 <211> 440
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(440)
 <223> unsure at all n locations

<400> 5

cgtccgcgcc ggcgcacttc gccttttcgt ccccgcgta gcgtcgcggc tccnntgagc 60
 gtgcgcgta ccggcggcag gcgagggcag gcggtggtgg cgatggcgtn cgctgatgcg 120
 cgcttggcgg ngatcgnctc ctncatccng gtnatncccg acttnccaaa gccaggggatn 180
 atgtttcagg acatcangan gntgntgttc gatcccaagg cgntccgtga caacatatac 240
 cattttgtca agcgggtacaa ggaccaaggn atcaccntgg aaantaggag ttaaagctag 300
 agggntcant ttcggaacaa ctanntctta naannaattg gtcaaaaatn ggtgncnatt 360
 gaggaagcnn aatnagntgc cangcnaaat gatttttnang aatangaatt ttnggaatnn 420
 ggaatnntag ataaaaaant 440

<210> 6
 <211> 470
 <212> DNA
 <213> Zea mays

<220>

<221> unsure
 <222> (1)...(470)
 <223> unsure at all n locations

<400> 6

aaggaccaag ggatnaccgt ggttgctggt gttgaagcta gagggttcat ttttgngct 60
 gntatgggct ttanccattg gcgcaaaatt tgtgcctttg aggaagccga agaanttgcc 120
 aggcgaggtg atctccnaan agtatntttt ggaatatgga actgacaana atagaaatgc 180
 atgtcggant ttacaaggc caacaaccgg cctttttgta ntncaatnat cttnttgnta 240
 ccggtggaac attttttcaa nttnnaaaaa ttttttaaac tttttgaacc aaaagntttt 300
 gaaagttcct ttgttanttn naattnncca aaaantnaan gggccaaana aactttgnga 360
 cacgggccan atttttttcn tttgggaaaa aaaacacctt aaacngnaan ttttngacnt 420
 tttaaaaaan attttngccc cccaatnct naaaattttt catttttncca 470

<210> 7
 <211> 412
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(412)
 <223> unsure at all n locations

<400> 7

atctgattgn caccggtgga acacnctggt tttctttcaa acttattgaa cgtggttgag 60
 naaaggntgt tgagtgtgct tgcntnattg aattggcaga actgaagggc cgagacaaac 120
 ttggggacag ggcagttntt gttcttgngg aagcagatgc ttgancggaa cttgggactt 180
 ctcttctcag agagtttagag ttagcgctgt tgatgctacc tntctggaaa acaacaaagt 240
 tncccatggt ggntanagtn nggctgacac gtaataaaan tttcatncca aattgtgatc 300
 ccctgaatga natgacaatg tagacatgat tgctggctct tgnatactgt gggnttatta 360
 ttcacatcaa antaaangga taatcccnga atgggagctn aaaaaaangg ac 412

<210> 8
 <211> 448
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(448)
 <223> unsure at all n locations

<400> 8

ccggcngaag gcnagggcag gcggtgntcg cgatggcgtt cntcgacgcg cgcttngggg 60
 agattncctc ntgcacccgc gtnatncnng acttcntnaa ancagggatc atntannang 120
 acataangac antgatgctc gaccnnaaag cgttccgtga caccatcgac gtcttcnttg 180
 agcgggtacaa ggaccaaagg gatcaccgta attgctggtg tggaagctag agggttcatt 240
 tttggncttc tatcgctcta ccatnaatgc gaaatttgta ccttttagga agcctaaaaa 300
 atttccaagc cagggttaatc tncgaaagaa tattctcttg aatnccnaaa ctnanaaana 360
 taaatatnca ttttgganct ttacaancca aacnaattgg gcttttngta tttcnatnat 420
 nttattntca cnagtnnaac aatttttt 448

<210> 9
 <211> 437
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(437)
 <223> unsure at all n locations

<400> 9

agacgcgtgg gcggggtcga agaggagctt ggagcttgga ccgaccgag cccacccgag 60
 cgagagagag gaaataatgg gtgaagaggc cagctgcaac gccgtcagcg cgatggaggc 120
 cgccaccaac gccaggccgg ccaaggagaa cggacgcgcg ccggctgtgg cggaggtagt 180
 ggcccaggag gcggccactg acccccggct gcagggcatc tccgacgcca tccgcgtcgt 240
 gccgcacttc cccaagcacg gcatcatgtt caacgacatc accacgctgc tgctgcgccc 300
 caggggtgttc aaggacgccg tcgacctgtt cgtcgagcgc taccgcggga tgcgcatcga 360
 cgccgtcgcc gggatcgagg ccaggggctt catatttggc ccggcagtcc attggctatt 420
 gggcgccnaa ttcaaaa 437

<210> 10
 <211> 461
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(461)
 <223> unsure at all n locations

<400> 10

gactgattgc ctggagatgc gtgtcggggc catcgagcga tccggcgagc ggggtgctggt 60
 catcgacgac ctgggttgca ccggagggac actctgtgct gcgatcaggc ttctagaacg 120
 tgctggagcc gatgtggtcg agtgcgcgtg tgtcatcggg ctcccgaat tcaaggattt 180
 gtacaagttg aatggaaaac ctgtatacgt gctgggttgag tctcgtgaat aatcggagaa 240
 atgacaactt atgctcaggt gtcagagtga tcagggatat tggctgttta ctcttgcta 300
 ctgcgattga acagtggagg gacgacatgg acaaggacaa gtatattcng tgcatacta 360
 aatcttggtg aggggagaga ttgtagtggt ttaagctgag tanttgaana acctgtaatt 420
 tctgcacnga acatgatngn tattagttn attccaccac t 461

<210> 11
 <211> 262
 <212> DNA
 <213> Zea mays

<400> 11

ggaaggtgag gtgatctccg agaagtacgt tctcgagta gggactgatt gcctggagat 60
 gcgtgtcggg gccatcgagc gatccggcga gcggtgctg gtcacgacg acctgggtgc 120
 gaccggagga cactctgtgc tgcatcagg cttctagaac gtgctggagc cgatgtggtc 180
 gagtgcgcgt gtgtcattgg gctcccgaaa ttcaaggatt tgtacaagtt gaatggaaaa 240
 cctgtatacg tgctgggtga gt 262

<210> 12
 <211> 253
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

<400> 12

ggaaggtgag gtgatctccg agaagtacgt tctncgagta cgggactgat tgctggaga 60
 tgctgtcgg ggccatcgag cgatccggcg agcggtgct ggtccatcga cgacctggtt 120

gcgaccggag ggacactact gtgctgcgat caggcttcta gaacgtgctg gagccgatgt 180
 ggtcgagtgc gctgtgtcat tgggctcccg aaattcaagg attgtacaat tgatggaaaa 240
 cctgtatacg tgc 253

<210> 13
 <211> 463
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(463)
 <223> unsure at all n locations
 <400> 13

tagagggttc attttcgggc ctccatcgc tttagccatc ggcgcaaaat ttgtgccttt 60
 gaggaagccg aagaagttgc caggcgaggt gatctccgaa gagtattctt tggaatatgg 120
 aactgacaag atagaaatgc atgttgagc tgtacaggcc aacgaccggg ctcttgtagt 180
 cgatgatctt attgctaccg gtggaacact ctgtgcagct gtcaaactta ttgaacgtgt 240
 tggagcaaag gttgttgagt gtgcttgtgt cattgaattg ccagaactga agggtcgaga 300
 caagcttggg gacaggccag tttttgtcct tgtggaagca gacgcctgag cggaatttgg 360
 gaattctcag agagtttggg gcccgtcgat gcttcctctn tggagacaac acaagtttnc 420
 catggtacca tgttggtat tttctggctt gaccogtaat aaa 463

<210> 14
 <211> 300
 <212> DNA
 <213> Zea mays
 <400> 14

agcggtagaa ggaccaaggg atcaccgtgg ttgctggtgt tgaagctaga gggttcattt 60
 tcggctcctc tatcgcttta gccatcggcg caaaatttgt gcctttgagg aagccgaaga 120
 agttgccagg cgaggatgat tccgaagagt attctttgga atatggaact gacaagatag 180
 aaatgcatgt tggagctgta caggccaacg accgggctct ttagtcgat gatcttattg 240
 ctaccggtgg aacactctgt gcagctgtca aacttattga acgtgttgga gcaaagggtg 300

<210> 15
 <211> 288

<212> DNA
<213> Zea mays

<400> 15

gaggggttcat ttttggctct cctatcgctt tagccattgg cgcaaaattt gtgcctttga 60
ggaagccgaa gaagttgcca ggcgaggtga tctccgaaga gtattctttg gaatatggaa 120
ctgacaagat agaaatgcat gtcggagctg tacaggccaa cgaccgggct cttgtagtcg 180
atgatcttat tgctaccggt ggaacactat gtgcagctgt caaacttatt gaacgtgttg 240
gagcaaaggt tggtgagtg gcttgtgtca ttgaattgcc agaactga 288

<210> 16
<211> 297
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(297)
<223> unsure at all n locations

<400> 16

gcttttagcca ttggcgcaaa atttgtgcct ttgaggaagc cgaagaagtt gccaggcgag 60
gtgatctccg aagagtattc tttggaatat ggaactgaca agatagaaat gcatgtcgga 120
gctgtacagg ccaacgaccg ggctcttgta gtcgatgatc ttattgctac cgggtggaaca 180
ctatgtgcag ctgtcncact tattgaacgt gttggagcaa aggttgttga gtgtgcttgt 240
gtcattgaat gccagaactg aagggccgag acaagcttgg ggacaggcca gtttttg 297

<210> 17
<211> 289
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(289)
<223> unsure at all n locations

<400> 17

gcaaaatttg tgcctttgag gaagccgaag aagttgccag gcgaggtgat ctccgaagag 60
tattcttttg aatatggaac tgacaagata gaaatgcatg tcggagctgt acaggccaac 120
gaccgggctc ttgtagtcga tgatcttatt gctaccggtg gaacactatg tgcagctgtc 180

aaacttattg aacgtgttgg agcaaagggt gttgagtgtg cttgtgtcat tgaattgccca 240
gaactgaagg gccgagacaa cttggggana ggccattttg gcctggngg 289

<210> 18
<211> 276
<212> DNA
<213> Zea mays

<400> 18

ttttggtcct cctatcgctt tagccattgg cgcaaaattt gtgcctttga ggaagccgaa 60
gaagttgccca ggcgaggtga tctccgaaga gtattctttg gaatatggaa ctgacaagat 120
agaaatgcat gtcggagctg tacaggccaa cgaccgggct cttgtagtcg atgatcttat 180
tgctaccggg ggaacactat gtgcagctgt caaacttatt gaacgtgttg gagcaaagggt 240
tggtgagtgt gcttgtgtca tgaattgccca gaactg 276

<210> 19
<211> 267
<212> DNA
<213> Zea mays

<400> 19

accaagggat caccgtgggt gctgggtgttg aagctagagg gttcattttt ggtcctccta 60
tcgcttttagc cattggcgca aaatttgtgc ctttgaggaa gccgaagaag ttgccaggcg 120
aggtgatctc cgaagagtat tctttggaat atggaactga caagatagaa atgcatgtcg 180
gagctgtaca ggccaacgac cgggctcttg tagtcgatga tcttattgct accggtggaa 240
cactatgtgc agctgtcaaa cttattg 267

<210> 20
<211> 244
<212> DNA
<213> Zea mays

<400> 20

caagatagag atgcatgttg gagctgtaca ggccaacgat cgggctcttg tagtcgatga 60
tcttattgcc accggtggaa cactctgtgc agctgtcaaa cttattgaac gtgttgaggc 120
aaagggtgtt gagtgtgctt gcgtcattga attggcagaa ctgaagggcc gagacaaact 180
tggggacagg ccagtttttg ttcttgtcga agcagatgct tgagcgggaa ttgggacttc 240
tctt 244

<210> 21
 <211> 266
 <212> DNA
 <213> Zea mays

<400> 21

ccgggctctt gtagtcgatg atcttattgc taccggtgga acactatgtg cagctgtcaa 60
 acttattgaa cgtgttggag caaagggtgt tgagtgtgct tgtgtcattg aattgccaga 120
 actgaagggc cgagacaagc ttggggacag gccagttttt gtccttgtgg aagcagacgc 180
 ctgagcggaa cttgggactt ctcagagagt ttggcgccgt cgatgctccc tctctggaga 240
 caacacagtt tcccatgtta ccatgt 266

<210> 22
 <211> 231
 <212> DNA
 <213> Zea mays

<400> 22

gatcttattg ctaccggtgg aacactatgt gcagctgtca aacttattga acgtgttggg 60
 gcaaagggtt ttgagtgtgc ttgtgtcatt gaattgccag aactgaaggg ccgagacaag 120
 cttggggaca ggccagtttt tgtccttgtg gaagcagacg cctgagcggg acttgggact 180
 tctcagagag tttggcgccg tcgatgctcc ctctctggag acaacacagt t 231

<210> 23
 <211> 174
 <212> DNA
 <213> Zea mays

<400> 23

ctttggaata tggaactgac aagatagaaa tgcattgttg agctgtacag gccaacgacc 60
 gggctcttgt agtcgatgat cttattgcta ccggtggaac actctgtgca gctgtcaaac 120
 ttattgaacg tggtggagca aagggtgttg agtgtgcttg tgtcattgaa ttgc 174

<210> 24
 <211> 275
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(275)
 <223> unsure at all n locations

<400> 24

atcagtgcga aatttgact tcttaggctt cctcaaaggt gatctccgaa gaatattctc 60
 tggaatacgg aactgacaag atagagatgc atgttggagc tgtacaggcc aacgatcggc 120
 tcttgtagtc gatgatctat tgccaccggt ncaacactct gtgcagctgt caaactattg 180
 aacgtgttgg agcaaagggt gttgagtgtg ctgcgtcatg aatggcagaa ctgaagggcc 240
 gagacaaact tggggacagg ccattttgtg cttga 275

<210> 25
 <211> 229
 <212> DNA
 <213> Zea mays

<400> 25

gttgagtgtg cttgtgtcat tgaattgcc aactgaagg gccgagacaa gcttggggac 60
 aggccagttt ttgtccttgt ggaagcagac gcctgagcgg aacttgggac ttctcagaga 120
 gtttggcgcc gtcgatgctc cctctctgga gacaacacag tttcccatgt taccatgttg 180
 gctattttct ggctgacgcg taataaagtt ttattccaaa ttgtgatcc 229

<210> 26
 <211> 119
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(119)
 <223> unsure at all n locations

<400> 26

ggaatatgga actgacaaga taganatgca tgtcggagct gtacaggcca acgaccgggc 60
 ttctttagt cgatgattct tattgctacc ggtggaacac tatgtgcagc tgtcaacaa 119

<210> 27
 <211> 431
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(431)

<222> (1)...(431)
<223> unsure at all n locations

<400> 29

cgcgctctcgt ccccgctccgc atccgcgtcc gcgcgcgctt ttcgtccccg cgtcggcgctc 60
gcggctccac tgggcgtacg cgtcaccggc ggaaggcgag ggcaggcggt ggtcgcgatg 120
gcgtccgcgcg acgcgcgctt ggccggggatt gcctcctcca tccgcgtcat ccccgacttc 180
cccaagccag ggatcatggt ccaggacatc acgacactgc tgctcgaccc caaggcggtc 240
cgtgacacca tcgacgtctt cgttgagcgg tacaaggacc aagggatcac cgtagttgct 300
gggtgtggaag ctanagggtt catttttgggt cctcctatcg ctctaaccat cantgcgaaa 360
ttttgtacct ttganggaac ctaaagaaat tnncaaggcn aaggatgatnt ccgaaanaat 420
aatccnctgg g 431

<210> 30
<211> 472
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(472)
<223> unsure at all n locations

<400> 30

gccagtcttg catcccgctc ccgtccgcgc cggccgacgc cgccttntcg tccccgcgctc 60
agcgtcgcgg ctccactgag cgtgcgtgtc accggcgagg ggcaagggca ggcgggtggtg 120
gcgatggcgt ncgctgacgc gcgcttggcg gggatcgctt cctccatccg cgtcatcccc 180
gactttccca agccagggat catgttccag gacatcacga cgtttgctnc tnnatnccaa 240
ggcggtccgt gacaccatcg acctenttgt cgagcgggtac aaggaccaag ggatcaccgt 300
ggttgctggt gttgaancta gaggggtcat ttttggtcct tctatngctt tagccattgg 360
cgcaaaaatt gngcccttta agaaanccga ataaatntca ncnaggngat ttngaagaa 420
ntttttttga aanttggtact tttccanant naantgggtt tnnngngttt nc 472

<210> 31
<211> 271
<212> DNA
<213> Zea mays

<220>

<221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

<400> 31

gcgagggcag gcggtggctc cgatggcgtc cgccgacgcg cgcttggnng ggattgcctc 60
 ctccatccgc gtcattccccg acttccccaa gccagggatc atgttccagg acanacacgac 120
 actgctgctc gacccaaggg cgttccgtga caccatcgan ctcttcgttg agcngtataa 180
 ggaccaaggg atcaccgtag ttgctgggtg ggaagctaga gggttcattt ttggtccttc 240
 ctatcgctct agccatcggt gctaaatttg t 271

<210> 32
 <211> 294
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

<400> 32

gtctcgcatc ccgtccccgt ccgcncgggc cgacgcgcgc ttttcgtccc cgcgtcaggt 60
 ncgcggggctc cactgagcgt gcgcgtcacc ggcggcaggc gagggcaggc ggtgggtggcg 120
 atggcgctccg ctgatgcgcg cttggcgggg atcgctcctt ccatccgcgt catccccgac 180
 ttccccaagc cagggatcat gtttcaggac atcacgacgt tgctgctcga tcccaaggcg 240
 ttccgtgaca ccatcgacct ctttgtcgag cggtacaagg aacaagggat cacg 294

<210> 33
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

<400> 33

gtccccgtcc gcgcggggcg acgcgcctt ttcgtccccg cgtcagggtc gcggggtcca 60
 ctgagcgtgc gtgtcaccng ngggaggcaa ggcaggcggt tgggtggcgat ggcgtccgct 120
 gacgcgcgct tggcggggat cgctcctcc atccgcgtca tccccgactt cccaagcca 180

gggatcatgt tccaggacat cacgacgttg ctgctcgatc ccaaggcggt ccgtgacacc 240
atcgacctct ttgtcgagcg gtacaaggac caaggatcac cgtgg 285

<210> 34
<211> 269
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(269)
<223> unsure at all n locations

<400> 34

cngacgctgg gcgcgggccc acgcgcctt ttctgccccg cgtcaggtec gcgggctcca 60
ctgagcgtag gtgtcaccgg cgggaggcaa gggcaggcgg tggtagcgat ggcgtccgct 120
gacgcgcgct tggcggggat cgcctcctcc atccgcgtca tccccgactt cccaagcca 180
gggatcatgt tccaggacat cacgacgttg ctgctcgatc ccaaggcggt ccgtgacacc 240
atcgacctct ttgtcgagcg gtacaagga 269

<210> 35
<211> 285
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(285)
<223> unsure at all n locations

<400> 35

cgcattcccgt ccccggtccgc nccggcngac gccgcctttt cgtccccgcn tcagggtccgc 60
ggctccactg agcgtgagcg tcaccggcgg caggcgaggn caggcggtgg tggcgatggc 120
gtccgctgat gcgcgcttgg cggggatcgc ctctccatc cgcgtcatcc ccgacttccc 180
caagccaggg atnatgtttc aggacatcac gacgttgctg ctcgatccca agggcggtcc 240
gtgacaccat cgacctcttt gtcgagcggg acaaggacca agggg 285

<210> 36
<211> 287
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 36

cnagtntcgc atcccgctccc cgtccgcacn ggcn gangcc gcctttncgt ccccgcgta 60
 ntncgaggac tccactganc gtgcgcgtna ccggcgccag gcgaggncag gcggtggtgg 120
 cgatggcgtc cgcngatgcg cgcttgccgg ggatngcctc ctccatccnc gtcacccccg 180
 acttccccaa nccagggatc atgtttcagg acatcacgac gttgctgctc gatcncaagg 240
 cgttccgtga caccatcgac ntctttgtcg ancngtataa ggaccaa 287

<210> 37
 <211> 458
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(458)
 <223> unsure at all n locations

<400> 37

ttcacncgtn cggtttncgc ttttcggcat nccgtccccg tccgcgcggg gncgattncg 60
 ncttttcgtn ngcgcgtcag ngtcgcggct ccactgagcg tgcgtgtcac cggcgaggagg 120
 caagggcagg cgggtggtggc natggcgctc gctgacgcgc ncttggcggg gatcgccctnc 180
 tncatncgcn tcatccccga cttccccaaag ccagggatca tggtccagga catcacgacg 240
 ttgctgctcg atcccaaggc gttncgttga caccatcgac ctnttttgtc gaancggtac 300
 aaggaccaan ggatcacctg ggnttgctgg tggtgaagct agagggttna ttttttggtc 360
 cttctatcgc tttanccatt ggcgcaaaat ttgtgccttt gaagaanccc aaaaaagttg 420
 ccacgchnaan gtgaacttcc gaaaaagggtt cttttgga 458

<210> 38
 <211> 272
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<210> 44
 <211> 294
 <212> DNA
 <213> Zea mays

<400> 44

accatcgcta cgtgggagat ctggagatcc tgcagtcgct gggagtcaac gcctacagat 60
 tctccatctc atgggcgagg gttctaccaa gaggccgggt tggtaggcgc aatgcaggcg 120
 gggtagcttt ctacaaccgc ctgatcgatg cgctcctgca gaaaggaata cagccattcg 180
 tcactctgaa ccatttcgac atgccgcgcg agctggaggt ccggtacgtg gctggctgga 240
 cgctgggatc cgggaggagt acgagcacta cgcggacgtc tgcttcgggg cgtt 294

<210> 45
 <211> 279
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations

<400> 45

gaaaaagctt cttcctggat ccagccattt gggttggttt tggcttttag gggggcaaaa 60
 gccaaagcca aaattcaaac caaacacacc cagtcatttt ggcttttcta tatacaatgc 120
 tttaactatg tatttagata tagtgtatat ttaagtgcac tataaaagat gccccctcca 180
 tcccnnaata aaatgtgttt taccttttta gttgatacat gcaataatga atatatttgt 240
 cttacatatg tgtctagatt catcatcatc catttgaac 279

<210> 46
 <211> 140
 <212> DNA
 <213> Zea mays

<400> 46

gtcatattct ccagcaccgt ggctaataat gtattgttgc agtacaaaaa aaaaaatata 60
 atccacaagg taaatttctt aatctataac cactatttga aattggtagt ctacaatcta 120
 tttgatgctt taagtgaact 140

<210> 47
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 47

aggaaaacaa attatacaac tttcatgagt atttaagagc aagcacacgg gctcagttga 60
 tgaattccct gaatcacatt tcccatatgg ctcggaacaa cggttgggtg gaaatgcccc 120
 aatggagtat gcaagcttta caataagatt tggctcattg aatgtgaccc agtgctttac 180
 tcggtcacca aacatcttga agcaaagctc aacgaagtag gtgaagtcct ccctgaatag 240
 aaataaagaa acaaccacat atgaacttac ggcattcttcg tagataaagc t 291

<210> 48
 <211> 315
 <212> DNA
 <213> Zea mays

<400> 48

cccaggacaa aaatgcgcta acccaaccgg gaactcgctc accgagccat acattgttgc 60
 ccacaacctc ctccgagctc acgctgagac tgtccatgag tacaacaagc attacagagg 120
 taacaaggac gcacagatag ggattgcatt cgacgtgatg ggccgtgtgc catatgacaa 180
 tatgtttctc gacggccagg cccaagaaag gtccattgat tataacctag gatggttcat 240
 ggagccggta gttcgcggcg actacccttt ctccatgaga tcattgatca aggatcggct 300
 accctacttc accga 315

<210> 49
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(290)
 <223> unsure at all n locations

<400> 49

ctgccagcgt atgggcctga cgggaaaccc attggctcctc ctgtacgtat atctttccaa 60
 cactatatga atttgttcac attattctan atttatgttt aaagtgattg gtgtaaaaaa 120
 ttcattccaaa aatataagca cagaagaatg tttgctcatg gatgaaatta tacgtgttga 180
 gtagcaaagt ttttgtgttg gcagtaaagc agaacaaatc tttacttttt tgtggaaata 240

tgcatgttgt taactagtga ataatatctg ctacaatttg cagatgggaa 290

<210> 50
<211> 299
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(299)
<223> unsure at all n locations

<400> 50

ctaatatgga cggaaaaaaaa atgccacaaa caactatatt ttagcgggaat gattaataat 60
ctaattgtat acatgacgta tgggcttcta agcaagccat gtgcagaaat gcagaatcng 120
cccatagccg gcatcgacgg acctgggcat gttgggctgg agtcctaaga tgaccttttt 180
gcgagatatt tgactcaaac aatctaacca actcaactaa actagatact tttggctctt 240
ttatttcttt tcacgaaact ttttgtcaac gtaggttttt agtttggtat acttattaa 299

<210> 51
<211> 250
<212> DNA
<213> Zea mays

<400> 51

ggccggtcta gtccgaggct ccacgacta cgtcggagtc aaccagtaca ctgcctacta 60
cgtgcgtgat cgacggccaa acgctacggc ggccgcccc agctactcgt ccgactggca 120
cgctgagttc gtctatgaac gcgacggtgt gccgattgga ccaagggcga actcagactg 180
gctctacatc gtgccttggg gactgtacaa agccgtcacc tacgtcaagg agaagtacgg 240
caacccccacg 250

<210> 52
<211> 237
<212> DNA
<213> Zea mays

<400> 52

gggaccgact acccttcttc actgacgagg agcgagagaa gctagtgggc tcatatgaca 60
tgctgggggtt aaactactac acctcaaggt tctccaaaca catcgatatt acgcaacaca 120
acacactaag gctcaacact gacgatgcat atgccagtca ggaaacgaaa gggcctgacg 180

gcgagcccat tggctctccg atggggaatt ggatctacct gtatcctcaa ggcctaa 237

<210> 53
<211> 315
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(315)
<223> unsure at all n locations

<400> 53

anacaatctt cagaatactc tggggggctg gatttctgac aagattgtgg agtactttgc 60
attgtatgca gaagcttgct ttgcaaattt tggagacagg gtaaagcatt ggataacaat 120
caatgaacct ctccaaactg caatcaatgg ttatgggatt ggaatttttg cacctggagg 180
atgccaaggt gaaactgcta gatgttactt ggctgccccat caccaaactt tggctcatgc 240
tgctgctggt gatgttatag aagaaaatcg aggctgcaca agtgtgaagt aggggtgggtg 300
tgattgtgaa tgggc 315

<210> 54
<211> 339
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(339)
<223> unsure at all n locations

<400> 54

gggcgctgga tccgcgggcg gcggtgaatc gcgtgcgggc tgacgtgagc gctgagcggg 60
attcgcgggc ggggcagtct acgctccact cttaatagtt gtagagatac ttttataaaa 120
gtacttttta tgacaaattg acgcatataa atatcagggt ccaaaaacta aataacaaaa 180
tagttatttg tagtcaaaat tttataagtt tgactcgaac cttatccaaa acgacaacta 240
ataggaaacc ggagggagta cgtgacccaa caccaccatt taagaccgac ggagaaccac 300
atggacatgg ggcgtgnttg ggaaggtgcc cagtanccc 339

<210> 55
<211> 187
<212> DNA

<213> Zea mays
 <400> 55
 gatttataac ctaggatggg tcatggagcc ggtcgttcgc ggcgactacc ctttctccat 60
 gagatcattg atcaaggatc ggctacccta ctttaccgac gacgagaaag agaagctagt 120
 gggttcgtat gacataatgg ggataaacta ctacacctcg aggtttttcca agcacatcga 180
 catctcgc 187

<210> 56
 <211> 271
 <212> DNA
 <213> Zea mays
 <400> 56
 ccttttataa actcaactga agatcaaaaa gcagcgcaaa gggccaggga cttccatatt 60
 gggttggtttc ttgatccatt aataaatggg caatatccaa cgataatgca agacattgtg 120
 aaagaccggc taccaagttt cacacctgaa caggccaagc tagtcaaggc ctcacagat 180
 tatttcggga tcaatcaata tactacatac tacattgcag atcaacaaac tcctccgcag 240
 gaccaccgag ctactcgtcc gactggggcg t 271

<210> 57
 <211> 275
 <212> DNA
 <213> Zea mays
 <400> 57
 cgaaagaaca cctctgtttt ctctgtttga aagatgagct taatcctata aacgcacaca 60
 agaagctaac ttaagaagcg ttcccatgca tacgcattag cttggctaga tgagtcacta 120
 tgacaatgac cgggtccagt gatgtgtctg gtctaatacg gatcgtccgg caagaaaaga 180
 aatgaaatca ggtgcattga acctgagctt gtcataatcc caccacatct caaaatataa 240
 acatatattc atcaatcatc tacgaatgca atttg 275

<210> 58
 <211> 315
 <212> DNA
 <213> Zea mays
 <400> 58
 cgcagagggg cagggtcggg atcctgctgg atttcgtgtg gtacgagccc ctcacggggc 60

gactcagccg cgcaccgggc cgccgctcaa aggtccagag acttccacgt cggatgggtc 120
 ctgcacccca tcgtctacgg cgagtacccc aagtcgggtc ggagaagcgt caagggcagg 180
 ctccccaaagt tcacgggtga ggaggccggt ctagtccgag gctccatcga ctacgtcgga 240
 gtcaaccagt aactgccta ctacgtgcgt gatcgacggc caaacgctag gcggcgcgcc 300
 cagtacttcg tccga 315

<210> 59
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 59

atcgccccga cggggatgta cgggtgcgtg aactaccta aggagaagta tgggaatcca 60
 acgatctaca taacggagaa cgggtactcaa cggaattccg tgtttcgcat gaacacgcca 120
 cgccgcatac caaggggaatc gtatttacat cgatcttttt tttatttctt ttctgtgtta 180
 ccaggaatgg accagcctgg aaacttgacc cgagaccagt acctgcgcga cgccacgagg 240
 gtgcgggttct acaggagcta catcggccag ctgaagaagg ccataga 287

<210> 60
 <211> 297
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(297)
 <223> unsure at all n locations

<400> 60

agaatggacc aacctggtga tgtcagtatt actcaggggtg tgcacgacac agtaagaatc 60
 cgttattaca gagactacat aactgagctc aagaaggcaa tagatgatgg tgccagantc 120
 attgggtact ttgcgtggtc gctgcttgac aacttcgagt ggaggcttgg gtacacttcg 180
 cggtttggct tgggtgtacgt ggactacaag actctgaaga ggtaccccaa ggactcagct 240
 ttctgggttca agcatatgct gtccaagaaa aggagtagag aattgcagac aagagga 297

<210> 61
 <211> 284
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 61

acggaacctt atatacgttgc tcataatddd ctcttggtcac atgctgctgc tgtgtcaaga 60
 taccgtaaca agtatcaggc tgctcagaaa ggaaagggtg gaatagttct ggacttcaat 120
 tgggtatgaag ctctcacaaa ctcaaccgaa gaccaagcag cggctcaaag agcaagggtt 180
 tccangttgg ttggtttgct gatcccatata taaatgggnt tatccccagn tatgccagnt 240
 ntngnaaaaag agnggctgcc cattttactc nggagnaagc taat 284

<210> 62
 <211> 278
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

<400> 62

ggccaaccaa agggctggat ctaggaagca gctttttcta aaagctgact ttctcacagt 60
 gcaaattctga aagcaccctt aaacctgctt ttagtgactt ttcggatgga actgtgaaaa 120
 catatatcga ngaactttta acgactttta gtgattttcca ccaaacgggtt ttagcttttt 180
 taacgactca cagctacagc agctttttcc acagctcaca gcccacagca atttttttcac 240
 agcccacagt tcaaccaaac agacctatat anccatgg 278

<210> 63
 <211> 269
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(269)
 <223> unsure at all n locations

<400> 63

gtgtggtacg agccgctgac caagtccgtg gaggacgagt acgcggcgca ccgggctcgg 60
 atgttcaccc ttggctgggt cctgcacccc atcacctacg gccactaccc ggagacgatg 120

cagaagatcg tcatggggag gctgcccac ttcaccttcg agcagtctgc catggtcaaa 180
 ggctcagcgg actacgtcgc catcaaccac tacaccacgt actacgccag caacttcgtc 240
 aacgccacag agaccactta ccgcaangt 269

<210> 64
 <211> 207
 <212> DNA
 <213> Zea mays

<400> 64

gccccaggat cctgggtgat ttcacagctt tcgccgactt ctgcttcaag acgtacggcg 60
 accgggtgaa gaactggttc accatcaacg agccgaggat gatggcccag catgggtacg 120
 gcgacggctt cttccccccc gccagatgca ccggctgcca gttcggcggc aactccgcca 180
 ccgagccgta catcgccggc caccacc 207

<210> 65
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(290)
 <223> unsure at all n locations

<400> 65

ccaacttcac cttcgagcag tctgccatgg tcaaaggctc agcggactac gtcnccata 60
 caaccactac accacgtact acgccagcaa cttcgtcaac gccacagaga ccaactaccg 120
 caacgattgg aatgcaaaga tttcgtatga gcgagatgng tgtgcccatt ggcaaaaggg 180
 cgtactcgga ctggctttac gtcgntccat gggggctcta caaggctctg atttggacca 240
 agnggaattc aacagccctg tgatgctcat cggagagaac ggattgaccc 290

<210> 66
 <211> 288
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(288)
 <223> unsure at all n locations

<400> 66
acagcttctc ttttcattct acacaattta tttatncnga tactccctcc gtctcaaaat 60
ataattcatt ttagactaaa catatatcca ttagttaacc tatgaatata gtttgtatgt 120
atatctacat tcattatcaa ttattcgaat gtggacggag aactatattt tgggacggag 180
ggagtactac ttggctttat ctgataccat tntttatntt gctttctaca caatttacgn 240
cagggcanct catacaatta ttcagatntt naactggagt tcagtcac 288

<210> 67
<211> 294
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(294)
<223> unsure at all n locations

<400> 67
cgccgagcng cacactccag cgtcgagcnc tacgtcgtca cccacaactg catcctggcg 60
cacgctgccg tncgccgnen tctacancng cagctaancg tgccgaacag cagggcgtn 120
tcggnatcaa natctacacc ttctggaact accccttctc cntgcgtncc gcngaagtcc 180
aggccacgca gngttcgntn nattcatgat cggntggatg gtnaaccctg tngngnang 240
tgatancttc aagtgatgaa gagganagtc gggtcngttt cccaggttna ctaa 294

<210> 68
<211> 289
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(289)
<223> unsure at all n locations

<400> 68
gatggccaag cacggcgggc ggggccccag catctgggac gccttcacat aggttcccgg 60
gaccatccct aacaatgcca ccgctgacgt gacggctgac gagtatcatc ggtacaagga 120
agatgtgaac ataatagaaga acatgggctt tgtgcgtacc gattttcgat ctcttggtcg 180
aggattttcc nagatgganc tggcaaggta aaccagnang gagtggatta ctacaacagg 240
ctcanagntt annncncaaa aaannnanng ncngnaaaaa attctctnt 289

<210> 69
 <211> 289
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations

<400> 69

catcggtaca angnccatgt ncttcattnt gttcacatct tccttgtacc gatgatactc 60
 gtcgaccgtc acgtcagcgg tggcattgtt acaaggaaga tgtgaacata atgaagaaca 120
 tgggctttga tgcgtaccga ttttcgatct cttgggtcgag gattttccca gatggaactg 180
 gcaaggtaaa ccaggaagga gncgattact acaacaggct tcatagatta catgctccag 240
 caaggtatcg cgccgtatgc aaatctctac cattatgacc tcccattgg 289

<210> 70
 <211> 278
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

<400> 70

ttcagcttag ctagcaangg ggnggatcat ggcnacgctt gtcgctnctg ccatgaagca 60
 acgctgnann ccatnctgtg cnttaggagg cncctagtag ganccaacaa taagagtttc 120
 tcanggcacc acctnnncgt cttcttctnn atagancagc aagcgcaggt gtaagcttag 180
 gtttactana cgatctggna gagtaggcag ctcaanatgg agtccaaatg ttngnnaccc 240
 tcggaaatnn caciaaggga ntgggtcccc tctgattc 278

<210> 71
 <211> 296
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(296)
 <223> unsure at all n locations

<400> 71
 gtggaggctt ggggtacactt cgcgggtttgg cttgggtgtac gtggactaca agactctgaa 60
 gncgtacccc aaggattcag ctttctgggtt caagcatatg ctgtccaaga aaaggagcta 120
 gagaattgca gacaagagga ccactggctt cacgtgtcat acaaaagttc actctgcaaa 180
 tcctcttagt atgtcagatt tagcttaagg aaccgtgcag acaattgagt ctcaaggctc 240
 gacatctcta gcttcgtaa ntgttgcaag gcaataaatt ggtatcttcg aaaaaa 296

<210> 72
 <211> 301
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations

<400> 72
 gcaccatctc atcctttctn angnngctgn ngtnaggacg ataccgcnac aagtatcann 60
 ttgaccagaa ggggaagatt ggaattctnc tggatttcgt gtggnacgaa cctttnagcg 120
 acagcaatnn ggnncaggct ggagnacanc gagccngacg acnttcacct aggctgggtt 180
 ccttganncc attgtacatg gncggtancg tactcgatgc aagagatgag aaagacagct 240
 accgttggtc agcgatgaag aagccaggat gntgaaaggc tctatagact atgttggcat 300
 c 301

<210> 73
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 73
 ccctaacaat gccaccgctg acgtgacggt cgacgagtat catcggtaca aggaagatgt 60
 gaacataatg aagaacatgg gctttgatgc gtaccgattt tcgatctctt ggtcgaggat 120
 tttcccagat ggaactggca aggtaaacca ggaaggagtg gattactaca acaggctcat 180
 agattacatg ctccagcaag gtatcgcgcc gtatgcaaat ctctaccata tgactcccat 240
 ggcaactccat gaacagtact gggctggctt agcccaa 277

<210> 74
 <211> 277
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 74

acaatgctag agtccatnta tctagggttt atgctggtga aaaacttttg aagtaaaaga 60
 nagtctgtta gacttgtact tggtcnnttt gtcattgcaac attttcagga agatgtcgac 120
 ctcatgaaaa gtttgaattt tgatgcctac cggtttctna tctcatgggc caggatcttc 180
 ccagatggcg aggggaagagt caatccagaa ggtggtgcct attacaacaa tctgataaac 240
 tacctgcttc ggaaaggcat tacaccgtac gccaatc 277

<210> 75
 <211> 311
 <212> DNA
 <213> Zea mays

<400> 75

attagcttgg ctagatgagt cactatgaca atgaccgggt ccagtgatgt gctgggtctaa 60
 tcgggatcgt ccggcaagaa aagaaatgaa atcaggtgca ttgaacctga gcttgtcata 120
 taccaccac atctcaaaat ataaacatat attcatcatc catctacgat gcaattgtat 180
 gaacgttata ttagtgggtg ttgttgata tattaccatt agagtagtcc aagtgtgggt 240
 atatatcggg tagttatatc ccaacaacac cccttatatc atcatctata ggcggaaaaa 300
 gcacaacatt t 311

<210> 76
 <211> 337
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(337)
 <223> unsure at all n locations

<400> 76

gactgggttc cgtgcntca nngnacgtgt atggcattgt cnacgtcgac cgcaanaata 60

aaggggaata tatgttggat gtgtnaat 328

<210> 79
 <211> 327
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(327)
 <223> unsure at all n locations

<400> 79
 gccaaagcacg gcgggcgggg cccagcatc tgggacgcct tcatagaggt tcccgggacc 60
 atccctaaca atgccaccgc tgacgtgacg gtcgacgagt atcatcggt caaggaagat 120
 gtgaacataa tgaagaacat gggctttgat gcgtaccggt ttcgatacntt ggnnaggatt 180
 tcccagatgg actggcaagg tgaaccagg aaggagtga tataccaacc aggtcataga 240
 tacatgctcc cagcaagtat ccgcgcgtat gncaaannct acattatgac tccattgcnn 300
 catgacatac tgggtgntta ccaagat 327

<210> 80
 <211> 295
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(295)
 <223> unsure at all n locations

<400> 80
 aaatatatat cgaagaactt ttaacgactt ttagtagntt ccaccaaacg atnttttagct 60
 ttgnaacggc tcacagccta cagcagctng tnttcatagc tcataacaac tttnttcaca 120
 gaccaaacag acccatagat ttgtncgtca catcacgttc gtgtatggct ggccctggcg 180
 tttcatgacc gctcgtttcc tccgccagcg cagtagcgcc gctannnnnnn nnnnnnnnnn 240
 nnnnctgctg gctcgccact gccagtttcg caccatgttg ttgtacttnt atccg 295

<210> 81
 <211> 274
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 81

cgcntattgc cacgtcaaga nacgaatggn cctgacggga atcccattgg tccttggntg 60
 ggcaatccga ggnnctacct atatactgaa ggcctaaagg atctgcttat gatcntgaag 120
 aacaaatncg gaaaccacc catctacatc actgagaacg ggatgggtga cgntgaccat 180
 ggngatctac ccatggaagn tgcttggatg accacanaag agtacattac cttcagcgca 240
 catcgcaact cttaaggagc aagagacttg ngag 274

<210> 82
 <211> 249
 <212> DNA
 <213> Zea mays

<400> 82

cgcggtggt ggccgcccta gggtagacg acggcaggtt cgcgccgggg aggtgcacgg 60
 ggtgagaggc cgggggggac tcgggcaccg agccctacgt cgtggcgcac cacctcatcc 120
 tctccacgc cgccgccgtc cagaggtacc gccgcaggca ccagccgacg cagaggggca 180
 gggtcgggat cctgctggat ttcgtgtggt acgagcccct cacggcggac tcagccgccg 240
 accgggccg 249

<210> 83
 <211> 287
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 83

ctttcggaga aaagggtaaa aaactggtn accttcaaca agccgaggtg cgtccctngc 60
 tctgggctac aacaatggct tgcacgcacc ggnaagggtg cccgggtgcc ccgccggang 120
 caactcnacn acggagcctt accttgtcgc acaacatcct caaccctttc tcatgcaacc 180
 tgctgtcaag gcnataccgc cnacaagtta tcancttcac caagaaagg gaaaaattgg 240
 aaattcncct ggaatttcgt ngtggtgaca aaacctttca anccaaa 287

<210> 84
 <211> 394
 <212> DNA
 <213> Zea mays

<400> 84

ggaaaaaagg aacgggaaga gaggggtctgt ttggttgaga ggtagatgtg aaaaaagttg 60
 tttgtgaatt gtaaactgtg gaaaaagttg ttgtgggctg tgagctgtta aaaaactaca 120
 aaatgtttgg tggaaactac taaaagtcgt taaaagttct tcgatatatg ttttcacagt 180
 tccatctaaa agcaggtaca taggtgcttt gaggtcaaag tgggttgagt cgggggagac 240
 gccgttctct caattttttg ggatcacgcc tccaccaaaa actactccgg gttttacctc 300
 gtccctacgt gaatctcatc caaacactat tgggaattgtg gccgccctat tccatcccct 360
 ccaatataca tccaacaaaa acattaatgt tgtc 394

<210> 85
 <211> 436
 <212> DNA
 <213> Zea mays

<400> 85

agaaactaaa gcttcagaag ggtaggcgtt catatcacat agagaatata tgcaatcctt 60
 gacgtagaat gtttggtagt gattttacccc gatgaagtca atttgggttct tcaatagttt 120
 cttctctcct tctgtaaatt ttggcaaatt tggacctaaag atttggcgca tctgggtgagg 180
 atagtcacca aagaaaaagg gatccaagat cctgttttag catatatcat caagtgagca 240
 ttcaatcgtg aagaccaaaa gttagttcca atcgtaaaag ttagcatata tgatggaagg 300
 ttactgaatc aattgatacc atggagcatc gaaagacaga gctcggctta ctgccaagtg 360
 gtccctccgtg ataatcctga atgggtcaaa acaacctaag ttgtaatgaa attcctacaa 420
 aagccacctt gcttgg 436

<210> 86
 <211> 414
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(414)
 <223> unsure at all n locations

<400> 86

tgntgcacag cggaggcttg actttcaact tggatgggnac ctatatccan tanatnttgg 60

tgattacca gaaagcatgc gtcaacgact gggcattgat nttccaacct tctcaganaa 120

ngataaagag ttcattgagga ncacaattga ttttggttga gtanatcatt atacttcaag 180

antcattgct catctccana atccanncca tgtntatttc taccangtgc aacaaatgga 240

gcgaatataa taatgganta ttggtnaaaa aattggtgaa agggcngcat ctgaatggct 300

tttcanantt ccttggggcc ttcataagtc acttanttan atancgaata agtacantan 360

tccagcaatt tatgttactg aanantggca tggatgaaga agacatcaat ccgc 414

<210> 87

<211> 367

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(367)

<223> unsure at all n locations

<400> 87

ctcantgntc aaaacnagtt gagnagcaat atttggttana tgtggagagg caattngana 60

ggggggngga tgnttaaaan ggtgggaagg cnaacggtct ttgttaacat gcaataaatg 120

tanaaggagc tgtacaccta naggtncgan tacatatttc caatanncaa ctgtagaatt 180

tatattatna angtcttana attactncac ataanatnnt attatnncan ncttatgntg 240

atgatnttta caacaancat tacaatttnt acnacacttg tatagggctt gcgttttact 300

ttatnnatca tgtgccatac ngaacatttt ttatgnataa anntgncnat taaaantact 360

gntacat 367

<210> 88

<211> 335

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(335)

<223> unsure at all n locations

<400> 88

cataaggata atgacggant ctncnnngac ttnanctggn actatgatct tacncacnna 60
 nggnngngnc caatncatgn acgnnggaga gccnntnact ttcacattna ctgnngnagtt 120
 natccattga taaacggaca ctatccacag atnatgcaag atctcaatga acgacaatnt 180
 gcccacattc actcctganc atnctaaact ggtanaacgt ctccctagac tacatatgct 240
 atcaacgant acacatccac ctacatcaat nntcaaaaatc tgtgatcacc tgactcccan 300
 taactactcn nncnattgac acnatcacta tactg 335

<210> 89
 <211> 375
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(375)
 <223> unsure at all n locations
 <400> 89

tagcacgtcg acttctcaga agactactca cctaagctca acgccgacga cgcctatgcc 60
 actgcagaaa tctttggacc tgacgggaat tctattgggtc ctctatggg gaaatccatg 120
 gatctacatg taccctaaag gcctaaagga tctcctatg atcnnggaag accaaatccn 180
 gaaacccnct anctatatcc ngagaccgga anccgggacc tttgccccca aagganaatc 240
 cncgatccat gcaananncc ntngnannga ctncnagna ggcttggatt accctccn 300
 ccccatntn aannntnna annatncagt tnancctggg ggccngaccn nccccngcn 360
 ctnnacangg ncctt 375

<210> 90
 <211> 406
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(406)
 <223> unsure at all n locations
 <400> 90

ctgagtaacg ccgatgtcgc ggtcgatcag taccaccggt tcgaggagga tatacaggtc 60
 atggcggaca tggggatgga cgcgtaccgc ttttcgattg cctggtcgag gattctgccc 120
 aatggtaccg gccaaagtcaa ccaggccggc gtcgaccant acaacaggtt natcgatgca 180

ctgntatcga aagggattga gccatacntg accntgtacc antggnacnt ccccnaggcc 240
 ntgaaanaca ggtncacgg atggntggac aggcaaatag ngtacaantt ccnagtacnc 300
 cnagacatgc ttttaggnct tttgaganac gcgtgagang ctntgtnaca ccttnaaaag 360
 agccacacan ggtccctgca cagggataaa accccgntct annaaa 406

<210> 91
 <211> 418
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(418)
 <223> unsure at all n locations

<400> 91

actggctctg aacaataagc cctgaatcat ggtctcattc ctacaacagg tcccgcacgc 60
 atgcaacatg tcctgattct taaaaggaac atgttgatcat ccacacaact acaaatccgt 120
 actatgaaaa tacatttcta attagaccga ggaaccatg aagatggatg gaagcagaac 180
 acccaaggag accaaaaggg agaccagcaa ggcagggtccg ttcgagggtg ctgaagccga 240
 accagccggc cggccgcctg aaccagtctg cggggtagca gccttggagc ccgtccccga 300
 aagcatgtct ctgaaccagt acgccgagtc cttgggggtac cgcttcagcg tcgcgaagtc 360
 gacgtagacg atgccgaact tggacgtgta gcccagacgc cactngaagt tgttcagg 418

<210> 92
 <211> 426
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(426)
 <223> unsure at all n locations

<400> 92

cggacnnttg ggtttctctt ggcacatgct actgcngttg caagataccg tacgaaatat 60
 cagggctctat atatgcttgg aagttggaac aatggctgct cagaagggtg aggtcgnaat 120
 agtcctggac ttcaactggc acgaggctct tacaaactca cctgatgacn aagcatcatc 180
 ccaaagagcc agggacttcn acattngntg gnntgntgat ccattgataa acggacncta 240

ttnacagata atgcannatc tcgtgnagga gatgctgnet aggttcactn atnaacntgc 300
 taaactgntg aatnctcggn gactacatct tntcaacgag gacncatcta tntacantaa 360
 ngggcagaat cttgtcaact ggnncccaat anctctttcn nattgnnnag ttcaatatgt 420
 tttgga 426

<210> 93
 <211> 500
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(500)
 <223> unsure at all n locations
 <400> 93

cgaaggnaca gtcccttggg tggaactttg ggctgattat gtgcttgtgg ntgtgcgggt 60
 gggttcgatg ggaagtttac cggcttcttc acgggaaact tacggacnca tacgcatttc 120
 gaggggccga aggactcttc cagcactacg aagaataaac atggaaattt attcactcat 180
 actatggaga atggaactgg ggacgccgac attaaggaga tattctcatt tacggaggac 240
 gttccaaacg atcataaaag gtcagaccat acttagtggt atactgtcat ctccaaggaa 300
 ctaacagatc cgggactaaa cgcgtaagggt catcctgtcc ggctctcgtc ggataatccc 360
 gaacggcctg ttggtcctat tgaatgccac ggtaccgctc atgctgattg taataacaat 420
 cgtatgtgtc atacgaagga gtcggttaag cggccgaaat agcctaattg tgtgaagaat 480
 ttaataagaa gacctccatt 500

<210> 94
 <211> 501
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(501)
 <223> unsure at all n locations
 <400> 94

aagggggggg aggaaagccc ntggtnngac ctttgggctg nttatgtgct tgttatgtgc 60
 ttgttatgtg cttgnatttg cacaggggtc gtgcccgatg caacgggctg cgcgttacat 120
 ggaatactgc cctcggacaa ataggttgaa gaaaggcttc gggatactaa ttcaggacgg 180

aattattaca aaaactngng gtaacgtgtn cttegacaac tttggtgaca aggtgaagaa 120
 ttggttgacc tttaatgagc ccnatacatt tacttcattt tcctatggaa ccntnntctc 180
 tgccccanga cgatgctcac cnntactaga ctgagccatc ccaactggat aattcactcn 240
 tctnaacctt acattnctgn ccacaacatt cttctagccc annctnagge tgtnatctt 300
 tacaacaagt attacaaggn cnaagaacgg ccncataggt ctgcatcttg atgtantnan 360
 tcnttttnna tantcaacat tatttctaga ttaacttttt naantangnt tcatnnacat 420
 tacttaatta tanttntttt atccttt 447

<210> 97
 <211> 289
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(289)
 <223> unsure at all n locations
 <400> 97

cgatccgtca tggcgactgc tgcgccattg ttnntntccc acggtctcct cctccnccct 60
 ctccctggcg ctccggcgccc atggcggtgaa cgtgaagccc ggggagcacc acatcctcaa 120
 caggcagagc ttccccccgg ggttcgtctt cggcacggcg tgcgcggcgt accaggtgga 180
 ggggaacacn cacaggtacg ggcgcggggc ctgcatctgg gacaccttcc tcaagtatcc 240
 aggcactact cctgataacg cgaccgcgga cgtgacagtc gacgagtac 289

<210> 98
 <211> 211
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(211)
 <223> unsure at all n locations
 <400> 98

ggcgctcggg gcccatggcg tgaacgtgaa gcccggggan caccacatcc tcaacaggca 60
 gagcttcccc ccgggggttcg tcttttgnac ggcgtcgtcg gcgtaccagg tggaggggaa 120
 cacgcacagg tacgggcgcg ggccctgcat ctgggacacc ttctcaagt atccaggcac 180
 tactcctgat aacgcgaccg cggacgtgac a 211

<211> 277
 <212> DNA
 <213> Zea mays

<400> 101

ggatcagcct ggaaacctca cgcgcgagga gtacgtgcac gacgccgtga ggatcgactt 60
 ctacaagaac tacctgacgg agctaaagag agggatcgac ggcggcgcgga acgtgatcgg 120
 ctacttcgcg tggctctctcc tggacaactt cgagtggctg tcgggctaca cgtccaagtt 180
 cggcatcgtc tacgtcgact tcgcgacgct gaagcgggtac cccaaggact cggcgtactg 240
 gttcagagac atgctttcgg ggacgggctc caagget 277

<210> 102
 <211> 255
 <212> DNA
 <213> Zea mays

<400> 102

gtaccataat ccaatcatca tcatatcgga aaacggaatg gatcagcctg gaaacctcac 60
 gcgcgaggag tacgtgcacg acgccgtgag gatcgatttc tacaagaact acctgacgga 120
 gctaaagaga gggatcgacg gcggcgcgaa cgtgatcggc tacttcgctg ggtctctcct 180
 ggacaacttc gagtggctgt cgggctacac gtccaagtgc ggcacgtctt acgtcgactt 240
 cgcgacgctc aagcg 255

<210> 103
 <211> 274
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 103

gcgcactcaa tttggcttta catcgtccca tcgggcatgt atggagtcgt gaacnaccta 60
 aaggaaaagt accataatcc aatcatcatc atatcggaaa acggaatgga tcagcctgga 120
 aacctcacgc gcgaggagta cgtgcacgac gccgtganga tcgatttcta caagaactac 180
 ctgacggagc taaagagagg gatcgacggc ggcgcgaacg tgatcggcta ttcgcgtggg 240
 ctctctggac aattcgagtg gtgtcgggta cacg 274

ctacctaag gaaaagtacc ataatccaat catcatcana ncnggaaagg gstatggntcn 240
ccncttgga acct 254

<210> 107
<211> 189
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(189)
<223> unsure at all n locations

<400> 107

gggaccaccg agctacnacg tccgacncng ggcgtccaat attactttca aaggaatggc 60
gtgcaaattg gacagatggc gcacttcaat ttggctttac atcgtcccat cgggcatgta 120
tggagtcgtg aacncaccta aaggnaaagt accataatcc aatcatcatc atatcggaaa 180
acggaatgg 189

<210> 108
<211> 353
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(353)
<223> unsure at all n locations

<400> 108

cggaaccaca cccatctaca tcaactgagaa cgggatgggt gacgttgacc atggcgatct 60
acccatggaa gttgccttgg atgaccacaa aagagtacat tacctccagc gccacatcgc 120
aactcttaag gagtcaagag acttgggagc gaatgtgcag ggctacttcg cttgggtctct 180
attgacaact tcgaatgggt ctccggctac acggaacgtt acggcatcgt ctatgttgac 240
cgcaacgatg gctgcaaacg ctacatgaag cggtcagcca agtggttcaa agagttcaat 300
gctgcgaaga aagcggctgc caagaagatt cttacgccag cttagaatcg ntg 353

<210> 109
<211> 326
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(326)
 <223> unsure at all n locations

<400> 109

aaccaccca tctacatcac tgagaacggg atgggtgacg ttgaccatgg cgatctaccc 60
 atggaagttg ccttggatga ccacaaaaga gtacattacc tccagcgnca catcgcaact 120
 ctttaaggagt caagagactt gggagcgaat gtgcagggct acttcgcttg gnctctattg 180
 gacaacttcg aatgggttctc cggctacacg gaacggttacg gcacgtctta tgttgaccgc 240
 aacgatggct gcaaacgcta catgaagcgg tcagccaagt ggttcaaaga gttcangctg 300
 cgaagaaagc ggctgccaga agntct 326

<210> 110
 <211> 256
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(256)
 <223> unsure at all n locations

<400> 110

catgnatnct acctatatcc tgaaggccta aagganctgc ttatnancat gaagaacaaa 60
 tacggaaacc caccatcta catcactgag aacgggatgg gtgacgttga ccatggcgat 120
 ctacccatgg aagttgcctt ggatgaccac aaaagagtac attacctcca gcgccacatc 180
 gcaactctta aggagtcaag agacttggga gcgaatgtgc agggctactt cgcttgggtct 240
 ctattggaca acttcg 256

<210> 111
 <211> 278
 <212> DNA
 <213> Zea mays

<400> 111

atatggctcc actcgtcgct actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
 ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
 gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
 tgagcccctc ggaagtcctt aaaagagact ggttcccctc tgacttcacg tttgggtgccg 240

ccacttcagc gtaccaaatt gaaggtggat ggaacgag 278

<210> 112
<211> 274
<212> DNA
<213> Zea mays

<400> 112

atatggctcc actcgctcgt actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgagcccctc ggaagtccct aaaagagact ggttcccctc tgacttcacg tttggtgccg 240
ccacttcagc gtaccaaatt gaaggtggat ggaa 274

<210> 113
<211> 232
<212> DNA
<213> Zea mays

<400> 113

atatggctcc actcgctcgt actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgagcccctc ggaagtccct aaaagagact ggttcccctc tgacttcacg tt 232

<210> 114
<211> 233
<212> DNA
<213> Zea mays

<400> 114

atatggctcc actcgctcgt actgccacga tgaaccacgc tgtggcccat ctgctaggac 60
ccaatcatga gagtttctca cggcaccatc tttcttcctc gctgcagcaa aacagtaagc 120
gaaggtgtaa tcttagcttc aggccacgag ctgctgagag tcagaatgga agccaaacgc 180
tgaggggcct cggaagtccc taaaagagac tggttcccct ctgacttcat ctt 233

<210> 115
<211> 162
<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(162)

<223> unsure at all n locations

<400> 115

gagagagaaa aaatatggct ccactcgtcg ctactgccac gatgaaccac gctgtggccc 60

atctgctagg acccaatcat gagagtttct cacggcacca tctttcttcc tcgctgcagc 120

aaaacagtaa gcgaagggtgt aatcttagct tcaggccang ng 162

<210> 116

<211> 233

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(233)

<223> unsure at all n locations

<400> 116

taccaaggct ggtagggccc aaaaattgtg gacatatattg ctgactatgc tgatttttgt 60

ttcaagactt ttggcaatcg agtcaagaac tggttcacat taaatgagcc aaggatagta 120

gcattccttg gttatgataa agggcttaac cccctaacc ggtgcacaca atgcactgcc 180

ggtgggaact catcgacaga accttacatt gttgttcata acattcncct atc 233

<210> 117

<211> 349

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(349)

<223> unsure at all n locations

<400> 117

ggaagatggt gatctcatga gaagcctaaa ttngatgca taccggtttt caatctcctg 60

gtccaggatc ttcnccagat ggcaaggga naattaatna cgaaggagta caatatnaca 120

acaatcttat agactacatg gttaagcaag gccttactcc ttacgccaac cttaccact 180

atgatcttcc gcttgcgctt cagaagaagt accaaggctg gtagggcca aaaattgtgg 240

acatatttgc tgactatgct gatttttgtt tcaagacttt tggcatcgag tcaaganctg 300
gttcacatna attgagccaa ggatagtagc attccttggt tatgataac 349

<210> 118
<211> 203
<212> DNA
<213> Zea mays

<400> 118

taaccactat gatcttccgc ttgcgcttca gaagaagtac caaggctggt taggccccaaa 60
aattgtggac atatttgctg actatgctga tttttgtttc aagacttttg gcaatcgagt 120
caagaactgg ttcacattaa atgagccaag gatagtagca ttccttggtt atgataaagg 180
gcttaacccc cctaaccggt gca 203

<210> 119
<211> 303
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(303)
<223> unsure at all n locations

<400> 119

gattactaca acaggctcat agattacatg ctccagcaag gtatcgcgcc gtatgcaaatt 60
ctctaccatt atgacctccc attggcactc catgaacagt acctgggctg gcttagccca 120
aagattgtgg aggcgtttgc agactacgcc gagttctgcn tccacgcggt cggagacagg 180
gtgaagaact ggtttacctt caacgagccg aggtgcgctc ctgntctggg ctacgaacat 240
ggcttgcacg caccgggaag gtgttccggt gccccgccgg agcaactcca ccacggnanc 300
gta 303

<210> 120
<211> 220
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(220)
<223> unsure at all n locations

<400> 120

<400> 123
 ggacttcaac acgctcgaac gccacccgaa ggcgtcggcc tactggttca gggacatgct 60
 tcagaagcat tgagatctcc agancggagc ctgagcacgg aaggtaccat tttgttcagc 120
 ttcgcctagt gtttgggatg gcccaatggg tcaaattccg ctcagtgcct ggctaccaaa 180
 atgggaacaa aggacagcta ccccgatcaa ttgtgatgtt gtgtgtttgt gggt 234

<210> 124
 <211> 314
 <212> DNA
 <213> Zea mays

<400> 124
 cactgggaca cgctcaagc actggtagac aagtacgggtg gctttttaga tcggaggatt 60
 gtaaaagatt acacagattt cgctatgggtg tgcttcgaga acttcgggtga caaagtga 120
 aattgggtga catttaacga gcccacaaacg ttttcttctt tttcctatgg aatcggggtg 180
 tgtgccccag ggcgggtgctc cccaggacaa aaatgtgcta acccaattgg aaactcactt 240
 atcgagccat acattgttgg tcacaacctt ctcttagccc atgctgaggc tgttgatctt 300
 tacaacaagc atta 314

<210> 125
 <211> 261
 <212> DNA
 <213> Zea mays

<400> 125
 attgtaaaag attacacaga cttcgctaag gtgtgctttg agaacttcgg tgataaagta 60
 aacaattggg tgacctttaa tgagccccaa acgttttctt ctttttcata cggaaccggg 120
 ctatgcgccc cagggcggtg caccocagga caaaaatgtg ctaaccacat tggaactcgc 180
 ctactgagc catacactgt tggccataac cttctccgag cccacgctga ggctgttgat 240
 ctttacaaca agtattacaa g 261

<210> 126
 <211> 222
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure

<222> (1)...(222)
<223> unsure at all n locations

<400> 126

attggttgan ctttaatgag ccccaaacgt tttcttcttt ttcatacgga ancgggctat 60
gcgncccagg gcggtgcacc ccaggacaaa aatgtgctaa ccnaattgga aactngctca 120
ctgagccata cactgttggc cataaccttc nccgagccca cgctgaggct gttgatcttt 180
acaaaagtat tacanggggtg agaattggann tanggctnnn tt 222

<210> 127
<211> 382
<212> DNA
<213> Zea mays

<400> 127

gaggagagga gaggagagac tagacccgct agctgaggcc gggcggcgcg ctggacacga 60
acatgatggg gagaaaggcg ctcggtgtgtg ctctcttctt cctcctcttg gccgccgccg 120
tcgctccggc cgagctcagc gtcggggcgcg cggctgcttc gggcggcggtc acccggggccg 180
acttccccgc ggggttcgtc ttcggcgctcg gctcctccgc gtaccaggte gaaggtgcag 240
ttgcagagga cggaaggaag cctagcatct gggacacatt cacacatgaa ggctattccc 300
ttgacaacgc cacaggcgat gtaactgcgg atcaagtatc ataagtacaa ggacgacgta 360
aaagcttctg catgaagaaa tt 382

<210> 128
<211> 412
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(412)
<223> unsure at all n locations

<400> 128

ggagagacta gacccgctag ctgaggccgg gcggcgcgct ggacacgaac atgatgggga 60
gaaaggcgct cggctgtgct cctcttctcc tcctcttggc cgccgcccgc gctccggccg 120
agctcagcgt cggggcgggc gctgcctcgg gcgcggtcac ccgggcccgc ttccccgcgg 180
ggttcgtctt cggcgctcggc tcctccgcgt accaggtcga aggtgcagtt gcagaggacg 240
gaaggaagcc tagcatctgg gacacattca cacatgaagg ctattccctt gacaacgcca 300

caggcgatgt aaactgcgga tcagtatcat aagtacaagg accaacgtaa aagctttctt 360
 gcatgaagaa tgggtgggtcg aatgccctac ccggatgtcg aattggnccc cc 412

<210> 129
 <211> 306
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

<400> 129

gagactagac ccgctagctg angccgggcg gcgcgctgga cacgaacatg atggggagaa 60
 aggcgctcgg ctgtgctcct cttctcctcc tcttgnccgc cgccgtcgct ccggccgagc 120
 tcagcgctcgg gggcggcggc tgcctcgggc gcggtcaccc gggccgactt ccccgcgggg 180
 ttcgtcttcg gcgtcgggtc ctccgggtac cagtcgaagg tgcngttgca gaggacggaa 240
 ggaagcctag catctgggac acnttcacac atgaaggcta ttcccttgac aacgccacag 300
 gcgntg 306

<210> 130
 <211> 318
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(318)
 <223> unsure at all n locations

<400> 130

gnanatgaga ngaganacta gacccgctag ctgangccgg gcggcgcgct ggacacgaac 60
 atgatgggga gaanngcgct cggctgtgct cctcttctcc tcctcttggc cgcnccgctc 120
 gctccggccg anctcagcgt cgggncggcg gctgcctcgg gcgcggtcac ccgggccgac 180
 ttccccncng ggttcgtctt cngcgtcggc tcctccgctg accaggtcga aggtgcagtt 240
 gcagaggacg gaaggaagcc tagcatcttg nacacattca cacatgaang ctattcncca 300
 gacaacgcta natggatg 318

<210> 131

agctatgtc 189

<210> 134
<211> 158
<212> DNA
<213> Zea mays

<400> 134

ggcatgttgg ttttgtctac gaacgaaatg gagttcctat tggcgctcac gcaaactcct 60

actggctgta cattgtgccg tggggcatca acaaggctgt cagctatgtc aaggaaactt 120

acaaaaatcc tacaatgatc cttgctgaaa acggaatg 158

<210> 135
<211> 262
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 135

gtcagctacc aggatgattg gcatgttggg ttggccacgg aacggaaaat ggagttccta 60

attggcgctc acggcaacnc cctatggctg taacattgtg ccgtggggca tcaacaaagg 120

ctgtcagcta atgtcnagga aactttacca aaaatcctac aatgacacct gctgaaaacg 180

gaatggacca actggtgatg tcagtattac tcaggggtgt catgacacag taagaatcgg 240

tattacagag actacataac tg 262

<210> 136
<211> 476
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(476)
<223> unsure at all n locations

<400> 136

acgcgtacag attctccatc tcttgggtcca gaatactgcc gaagggaacg ctcgaaggag 60

ggattaatca ggccggcatc aagtactaca aaaagctcat caacttattg atagagaacg 120

gaatagagcc atttgaaca atttttcatt gggacgtccc tcaagcactg gaagacaagt 180


```
gtattaatca ggccggcatc aagtactaca aaaagctcat caacttattg atagagaacg 120
gaatagagcc atttgtaaca attttttcatt gggacgtccc tcaagcactg gaagacaagt 180
acggtggcctt tttaggcgac aggattgtaa aggattacac agacttcgct aaggtgtgct 240
ttgagaactt cggtgacaag gtgaagaatt ggttgacctt taacgagcca cagacattta 300
caaccttttc gtacggaacg ggagtttttg cccctggacg gtgctcacca ggagaaaaat 360
gtgctcagcc tattgctaac tcactcaccg aaccatacat tgctggccac aacattcttn 420
gagcccacct tttgactggg ga 442
```

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<210> 139
<211> 410
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(410)
<223> unsure at all n locations

<400> 139
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tgcggatgtc agattgctaa aggaaatagg catgggcnng tacagattct ccntcnnttg 60
gtccagaata ctgccgaagg gaacgctcga aggaggtatt aatcaggccg gcatcaagta 120
ctacaaaaag ctcacaaact tattgataga gaacggaata gagccatttg taacaatttt 180
tcattgggac gtccctcaag cactggaaga caagtacggt ggcttttttag gcgacaggat 240
tgtaaaggat tacacagact tcgctaagggt gtgctttgag aacttcggtg acaagggtgaa 300
gaattgggtg acctttaacg agccacagac atttacaacc ttttcgtacc ggaacgggag 360
tttttgcccc tggacagtgc tnaccaggag aaaaaatgtg ctcagnctat 410
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<210> 140
<211> 439
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(439)
<223> unsure at all n locations

<400> 140
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ctcaagcact ggaagacaag tacggtggct ttttaggcga caggattgta aaggattaca 60
cagacttcgc taagggtgtgc tttgagaact tcggtgacaa ggtgaagaat tggttgacct 120
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ttaacgagcc acagacattt acaacctttt cgtacggaac gggagttttt gccctggac 180
 ggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctactcacc gaaccataca 240
 ttgctggcca caacatcctt cgagcccacg ctatgactgt tgacctctac aacaagaatt 300
 acangggtag agacggnccg cattgggctt gcgtttgacg taatgggtcg cgtgccatat 360
 ggaaatacat ttctcgatga acaggcccag gaaaggctct tngatcaaaa cctangatgg 420
 ttctttggan cctgtggtc 439

<210> 141
 <211> 326
 <212> DNA
 <213> Zea mays
 <400> 141

gattactgaa ggaaataggg atggactcct ataggttctc catctcttgg tccagaatac 60
 tgccgaatgg cacactcgaa ggaggtatta atccatatgg catcaagtac tacaaaaatc 120
 tcatcaactt gttggtagag aacggcatag agccatttgt gacaattttc cactgggaca 180
 cgcctcaagc actggtagac aagtatgggtg gctttttaga tgagaggatt gtaaaagatt 240
 acacagactt cgctaagggtg tgctttgaga acttcggtga taaagtaaac aattggttga 300
 cctttaatga gcccacaaacg ttttct 326

<210> 142
 <211> 414
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(414)
 <223> unsure at all n locations
 <400> 142

gtaaaggatt acacagactt cgctaagggtg tgctttgaga acttcggtga caagggtgng 60
 aattggttga cctttaacga gccacagaca tttaacaacct ttctgtacgg aacgggagtt 120
 tttgcccctg gacggtgctc accaggagaa aaatgtgctc agcctattgc taactcactn 180
 accgaaccat acattgctgg ccacaacatt ctctgagccc acgctatgac tgttgacctt 240
 tacaacaaga attacaaggg tacanaacgn cccattgggc ttgcgtttga cctaattgggt 300
 ccgggccata ntggaaatac atttntngat taanaaggcc angaaagggg ccttgantca 360

aaaacctaga ttgttcnttg aacctntggt cctggngant tacccttttt tatt 414

<210> 143
<211> 420
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(420)
<223> unsure at all n locations

<400> 143

aggacccagg gctctnatng atagagancn gaatntaagc catttgtaac aattcancag 60
gggnggggtc catcaancac tggaagacaa gtacggnggc tttttaagcg acaggatacg 120
taaaggatta cacagacttc gctaagggtg gctttgagaa ctncggtgac aaggngaaga 180
attgggtgac ctttaacgag ccacagacat ttacaacctt tncgtacgga acgggagttt 240
ttgcccctgg acggtgctca ccaggagaaa aatgtgctca ncctattgct aactcactca 300
ccgaaccata cattgctggc cacaacatcc ttcgagccca cncatgact gttgacctnt 360
acaacaagaa ttacaagggt tcanacggcc gcattgggct tgcgtttgac ntaatgggtc 420

<210> 144
<211> 419
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(419)
<223> unsure at all n locations

<400> 144

aggacgcgtg ggcttatnga tagagaacgg aatagagcca tttgtaacaa tttttcatgg 60
ggancgtccn tcaagcactg gaagacaagt acggtggctt tttangcgac aggattgtaa 120
aggattacac agacttcgct aangtgtgct ttgagaactt cggtgacaag gtgaagaatt 180
ggttgacctt taacgagcca cagacattta caaccttttc gtacggaacg ggagtttttg 240
cccctggacg gtgctcacca ggagaaaaat gtgctcanc cttattgctaac tcactcaccg 300
aaccatacat tgctggccac aacatccttc gagcccacgc tatgactggt gaccttntac 360
aacaagaatt acaaggggta cagacgggcg gattgggctt gcgtttggac gtaatgggt 419

<210> 145
 <211> 262
 <212> DNA
 <213> Zea mays

<400> 145

gtccagaata ctgccgaagg gaacgctcga aggaggtatt aatcaggccg gcatcaagta 60
 ctacaaaaag ctcatacaact tattgataga gaacggaata gagccatttg taacaatttt 120
 tcattgggac gtccctcaag cactggaaga caagtacggt ggcttttttag gcgacaggat 180
 tgtaaaggat tacacagact tcgctaagggt gtgctttgag aacttcgggtg acaagggtgaa 240
 gaattgggtg acctttaacg ag 262

<210> 146
 <211> 188
 <212> DNA
 <213> Zea mays

<400> 146

cagacttcgc taagggtgtgc tttgagaact tcggtgacaa ggtgaagaat tggttgacct 60
 ttaacgagcc acagacattt acaacctttt cgtacggaac gggagttttt gcccttgac 120
 ggtgctcacc aggagaaaaa tgtgctcagc ctattgctaa ctcactcacc gaaccataca 180
 ttgctggc 188

<210> 147
 <211> 442
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(442)
 <223> unsure at all n locations

<400> 147

gggaaatcca tggatctaca tgtaccctaa aggcctaaag gatctcctta tgatcatgaa 60
 gaacaaatac ggaaacccgc ctatctatat caccgagaac ggaatcgggg acgttgacac 120
 aaaggataat cctctatcca tgcaagatgc gttggacgac tacaagaggc tagattacct 180
 ccagcgccac atctcagtta tcaaagaatc aatagacttg ggggcggacg tgcgcggcca 240
 cttcacatgg tctctgttgg acaacttcga gtggtctagt ggctacaccg agcgttacgg 300

catcatctac gtcgaccgtg acgacggcta caggcgctac ctgaagcgct cagctaagtg 360
gctgcgagag ttcaacggag ctgccaaaaa ggctgaaaag aangntctta cgccagctta 420
gaatgtaggt gggggtgna gt 442

<210> 148
<211> 450
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(450)
<223> unsure at all n locations

<400> 148

agcacgtcga cttctcagaa gactactcac ntaagctcan nnccgacgac gcctatgcca 60
ctgggggaaa ttngnggacc tgacgggaat tctattgggc ctctatggg aaatccatgg 120
atctacatgt accctaaagg cctaaaggat ctcttatga tcatgaagaa caaatacggg 180
aaccgccta tctatatnac cgagaacgga atcggggacg ttgacacaaa ggataatcct 240
ctatccatgc aagatgcgtt ggacgactac aagaggctng attacctnca tcgccacatn 300
tcaattatca aagaatcaat agacttgggg gcggacgttc gcggcacttt acatggtctn 360
tgttggacaa ctttnagtgg tctantggct acaccgagcc gttacggnat tatntacgtn 420
gacngggacn accgntaca ngcctanctt 450

<210> 149
<211> 444
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(444)
<223> unsure at all n locations

<400> 149

ggataaatta ctatacctca aggttctcta agcacgtcga cttctcagaa gactactgac 60
ctaagctcaa cgccgacgac gcctatgcca ctgcagaaat ctttggacct gacgggaatt 120
ctattgggtcc tcctatggga aatccatgga tctacatgta ccctaaaggc ctaaaggatc 180
tccttatgat catgaagaac aaatacggaa acccgcctat ctatatcacc gagaacggaa 240
tcggggacgt tgacacaaag gataatcctc tatccatgca agatgcgttg gacgactaca 300

agaggctaga ttacctcagc gccacatctc aagttatcaa agaatacaata gacttggggg 360
ccggacgtgc gccgncactt nacatgggnt ttgttgagaca acttcgagtg ggctaattggn 420
taccgcgagcg gttccggnntt attt 444

<210> 150
<211> 435
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(435)
<223> unsure at all n locations

<400> 150

gcggggttcct atgacatatt ggggataaat tactatacct caaggntctc taagcacggn 60
ggnccttctna naagactact cacctaaagc tcaacgccga cgacgcctat gccactgcag 120
aaatctttgg acctgacggg aattctattg ggtcctccta tgggaaatcc atgggatcta 180
catgtaccct aaaggcctaa aggatctcct tatgatcatg aagaacaaat acggaaaccc 240
gcctatctat atcaccgaga acggaatcgg ggacgttgac acaaaggata atcctctatc 300
catgcaagat gccttggacc aactncaaga ggctagatta ccttcagcgc cacatctnaa 360
ttatcaaaga atcaatagac ttggggggccg gacgttcgcc gncacttnac atgggntctg 420
ntggacaact tcnag 435

<210> 151
<211> 230
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(230)
<223> unsure at all n locations

<400> 151

caacgccgac gacgcctatn ccaactgcaga aatcttttga cctgacggga attctatttg 60
tcctcctatg ggaaatccat ggatctacat gtaccctaaa ggcctaaagg atcttcttat 120
gatcatgaag aacaaatacg gaaacccgcc tatctatatc accgagaacg gaatcgggga 180
cgttgacaca aaggacaatc ctctatccat gcaagatgcy ttggaggact 230

<210> 152
 <211> 246
 <212> DNA
 <213> Zea mays

<400> 152

cgcttatcta tatcaccgag aacggaatcg gggacgttga cacaaggac aatcctctat 60
 ccatgcaaga tgcgttggag gactacaaga ggctagatta cctccagcgc cacatctcag 120
 ttattaaaga atcaatagac ttggggggcgg acgtgcgcgg ccacttcaca tggctctctgt 180
 tggacaactt cgagtgggtct agtgggtaca ccgagcgtta cggcatcatc tacgtcgacc 240
 gtgacg 246

<210> 153
 <211> 320
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(320)
 <223> unsure at all n locations

<400> 153

cccggncga cntccccgcg gggttcgtct tcngegtcgg cncnccccgc gtaccagnnc 60
 cgaaggtgca gttgcagagg acggaaggaa gcctagcatc tgggacacat tcacacatga 120
 aggctatncc cttgacaacn ccacaggcga tgtaacnncg gatcagtatc ataagtacaa 180
 ggacgacgta aagcttctgc atgagatngg tgcgatnnc ctaccggatg tcgattncct 240
 ggctctgact tatcccagat ggtcgggggag ccgtgaatcc gaagngctgg agtatnacia 300
 caatctcata gatgagtcct 320

<210> 154
 <211> 301
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations

<400> 154

acgacaaaag caaagcaaag cagcncaaaa aagtttagcc agctagcaag acatggctcc 60

acttggtgct gctgccacga atgcacactg cccatagaag ccacatagta ggacccaaca 120
atgagaattt tccaaggcac caaccttggt catcacaaaa cagaaacaag agactcaggc 180
ttaggtcacg agcacaaagg ataagcagtc agctgcttgc aagccgaaag cttatggccc 240
tgggcaaata ccctaanagg ggatgggttt cctcctagct tcattcttggg gccggccacg 300
c 301

<210> 155
<211> 266
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations

<400> 155

angcanagcg ttcaggatan acatngctgc cacctttgcc ttcactnctc tccngctacn 60
ggctctgcgc cagagcgcg cncntgttcn tcggcttcac aaggagcgag tncctgaag 120
ntttcgtcnt cggatccgcn acnncggctt atcagtatga nggtgctgtn ggtgaggatg 180
gtaggagccc aagcatctgg gacaccttca ctacgcagg ganaatnccg gacaaaagca 240
atggtgatgt agccgccgac nggtac 266

<210> 156
<211> 238
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(238)
<223> unsure at all n locations

<400> 156

gaacgctggg tcgacccanc ggcgtccgct tctgcttgct aatcggggtt tcagcttagt 60
ttggagggtg tangagttga ttcagctcgg tttggatgnc actaagattg aaggagcgag 120
aagggaggga ggcaaaggag acagcatatg ggatgtatgt acagatgaca aagaacatgt 180
cttagacaga agcaatggag aaattgcagt tgatcactac catcgatata aggaagac 238

<210> 157

<211> 233
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(233)
<223> unsure at all n locations

<400> 157

cagacgcgtg ggtcgaccan cgcgtccgct tctgcttgct aatcggggtt tcagcttagt 60
ttggaggggtg tggagttgat tcagctcggt ttggatggac taagattgaa ggagcgagaa 120
gggagggagg caaaggagac agcatatggg atgtatttac agatgacaaa gaacatgtct 180
tagacagaag caatggataa attgcagttg atcactacca tcgatacaag gaa 233

<210> 158
<211> 462
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(462)
<223> unsure at all n locations

<400> 158

caaggagaca cctctaccca tggaggatgc cttaaagtac tacaaaaggc tagattacat 60
cnagcgccac atcgctactc ttaaggaatc aatagacttg ggatcaaagt tgcaaggcta 120
cttcgcttgg tctctgctgg acaactttga atggttcgcc ggcttcaccg aacgttatgg 180
cattgtctac gtcgaccgca acaataactg cacgcgctac atgaaggagt ctgccaagtg 240
gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag attcttacgc cagcttagaa 300
atcgggggcc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggt ttcgaaccga 360
aaattttctg tttttttccg ccacgagagg ttctggaggc atactctcca gcaccgtggc 420
taataacgca ttgttccaat tcagtctggc cttgtcatgc at 462

<210> 159
<211> 463
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(463)

<223> unsure at all n locations

<400> 159

gtgctttgat aacttcggcg acaaggtgaa gaattggttg acctttaatg agccccagac 60
 attnncttcc ttttcctacg gaactggggt ctttgcccca ggtcggtgct cacctggact 120
 agactgtgcc tacccaactg ggaattcact cgtcgagcct tacactgctg gccataacat 180
 tctcctagcc cacgctgagg ctgttgatct ttacaacaag cattacaagc gcgacgacac 240
 ccgcataggg cttgcgtttg acgtaatggg tcgtgtgcca tacggaacat cgtttctgga 300
 taaacaggcc gaagaaaggt cctgggacat caacctagga tggttcttag agccagtggg 360
 tcgtggtgac tacccttctt ccatgagatc attggctagg gaacgactac ccttcttcaa 420
 ggacgagcag aaggagaagc tcgccggntc ctataacatg ttg 463

<210> 160

<211> 466

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(466)

<223> unsure at all n locations

<400> 160

gcgagaacgg ccgcataggt cttgcatttg atgtaatggg tcgtgtgcca tacggaacat 60
 catttctaga tgaacaggcc aaagaaaggt ccatggacat taacctagga tggttcttgg 120
 agcctgtggg tcgtggtgac tacccttctt caatgagatc gttagcgagg gaacgactac 180
 ccttcttcag tgacaaacag caagagaagc ttgtgggac cctataacatg ttgggaataa 240
 actactacac ctcaatattc tccaaacata tcgacatctc accaaaatac tcgcctgttc 300
 tcaacactga cgacgcctac gctagtcaag aaacgtatgg gcctgacggg aaaccattg 360
 gtcctnctat gggaaatccg tggatctact tataccaga aggcctaaag gatatcctta 420
 tgatcatgaa gaacaaatat gggaaacccc acctatctac atnact 466

<210> 161

<211> 441

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(441)
<223> unsure at all n locations

<400> 161

```
agattacaca tacttttgcta aggtgtgctt tgataacttc ggcgacaagg tgaagaanng    60
gtggaccttt aatgagcccc agacatttac ttccttttcc tacggaactg gggctcttgc    120
cccaggctcg tgctcacctg gactagactg tgcctaccca actgggaatt cactcgtcga    180
gccttacact gctggccata acattctcct agcccacgct gaggtgtgtg atctttacaa    240
caagcattac aagcgcgacg acacccgcat agggcttgcg tttgacgtaa tgggtcgtgt    300
gccatacggg acatcgtttc tggataaaca ggccgaagaa aggtcctggg acatcaacct    360
aggatggttc ttagagccag tggttcgtgg tgactacccc ttctccatga gatcattggc    420
tagggaacga ctacccttct t                                         441
```

<210> 162
<211> 444
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(444)
<223> unsure at all n locations

<400> 162

```
caccaaacta ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg    60
gggctgacgg gaagcccatn ggtcctccta tgggaaatcc atggatctac atgtaccctg    120
agggtttgaa ggatctcctt atgatcatga agaacaaata cggaaaccca cctatctaca    180
tcacggagaa cggaatcggg gatgttgata ccaaggagac acctctaccc atggaggatg    240
ccttaaataga ctacaaaagg ctagattaca tccagcgcca catcgctact cttaaggaat    300
caatagactt gggatcaaata gtgcaaggct acttcgcttg gtctctgctg gacaactttg    360
aatggttcgc cggcttcacc gaacgttatg gcattgtcta cgtcgaccgn aacaataact    420
gnacgcgcta catgaangag tctg                                         444
```

<210> 163
<211> 470
<212> DNA
<213> Zea mays

<220>

<221> unsure
<222> (1)...(470)
<223> unsure at all n locations

<400> 163

ctcacctgtg ctcaacactg acgacgcctt tnccagtcna gaagttaacg ggcctgacgg 60
gaagcccatt ggtcctccta tgggaaatcc atggatctac atgtaccctg agggcttgaa 120
ggatctcctt atgatcatga agaacaaata cggaaaccca cctatctaca tcacggagaa 180
cggaatcggg gatgttgata ccaaggagac acctctaccc atggaggatg ccttaaataga 240
ctacaaaagg ctagattaca tccagcgcca catcgctact ctttaaggaat caatagactt 300
gggatcaaata gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatgggtcgc 360
cggcttaccg gaacgttatg gcattgtcta cntcgacccg aacaatnact gnacgcgcta 420
catgaangag tctgccaaagt gggtgaaaca gttcaacgnc nccnaaaaaa 470

<210> 164
<211> 435
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(435)
<223> unsure at all n locations

<400> 164

tanacaatgc cataacgttc ggtgaagccg gcgaaccatt caaagttgtc cagcagagac 60
caagcgaagt agccttgac atttgatccc aagtctattg attccttaag agtagcgatg 120
tggcgctgga tgtaatctag ccttttgtag tcatttaagg catcctccat gggtagaggt 180
gtctccttg tatcaacatc cccgattccg ttctccgtga tgtagatagg tgggtttccg 240
tatttggttct tcatgatcat aaggagatcc ttcaagccct cagggtacat gtagatccat 300
ggatttccca taggaggacc aatgggcttc ccgtcaggcc cgtaacttc ttgactggcg 360
taggcgtcgt cagtgttgag cacagggtgag tagtttggtg agatatcgat gtttttgag 420
aaccgtgagg tgtat 435

<210> 165
<211> 459
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations

<400> 165

cagaaggaga agctcgccgg ttcctataac nttgtnggtn gttaaactac tacacctcac 60
 ggggntccga aaacatcgat atctcaccaa actactcacc tgtgctcaac actgacgacg 120
 cctacgccag tcaagaagtt aacgggcctg acgggaagcc cattgggtcct cctatgggaa 180
 atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgatc atgaagaaca 240
 aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatggt gataccaagg 300
 agacacctct acccatggag gatgccttaa atgactacaa aaggctagat tacatccagc 360
 gccacatcgc tactcttaag gaatcaatag acttgggatc aaatgtgcaa ggntacttcg 420
 cttggntctt gctggacaac tttgaatggg ttcgccggc 459

<210> 166
 <211> 466
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(466)
 <223> unsure at all n locations

<400> 166

aagggaattt tnattgaatg ctctaccggt ccggaattcc cggggtagaa gattacacat 60
 acttttgctaa ggtgtgcttt gataacttcg gcgacaaggt gaagaattgg ttgacnttta 120
 nggagcccca gacattnact tccttttcct acggaactgg ggtctttgcc ccaggtcggt 180
 gctcacctgg actagactgt gcctacccaa ctgggaattc actcgtcgag ccttacactg 240
 ctggccataa cattctccta gcccacgctg aggctgttga tctttacaac aagcattaca 300
 agcgcnacga caccgcata gggcttgctg ttgacgtaat gggtcgtgtg ccatacggaa 360
 catcgtttct ggataaacag gccgaanaaa ggtcctggga catcaaccta ggatggttct 420
 tagagccagt ggttcgtggg gactaccctt tctccatgag atcatt 466

<210> 167
 <211> 478
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(478)
 <223> unsure at all n locations

 <400> 167

 gatgttgata ccaaggagac acctctaccc atggaggatg ccttaaataga ctacaaaagg 60
 ntagattnca tccagcgcca catcgctact ctttaaggaat caatagactt gggatcaaata 120
 gtgcaaggct acttcgcttg gtctctgctg gacaactttg aatgggttcgc cggcttcacc 180
 gaacggttatg gcattgtcta cgtcgaccgc aacaataact gcacgcgcta catgaaggag 240
 tctgccaagt ggttgaaaca gttcaacgcc gcgaagaacc cagcaagaag attcttacgc 300
 cagcttagaa atcggggggc tcatgatgtg ggtgcagccc ataaaaaact ggtgtgtggg 360
 ttggaaccga aaattttctg gttttttccg nccgagaggg tctggangca tactnttcaa 420
 caccgnggc taataacgca ttggttncaat tcaatctggc cttgtcatgc ctgcaata 478

<210> 168
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

 <400> 168

ctcaagcact agaagagaag tacggcggat tcttagataa gactcataag aggnttggaa 60
 atgattacaa aaacttcgct aagggtgtgct tcgacaactt tggtgacaag gtgaagaatt 120
 ggttgacctt taatgagccc cagacattta cttcattttc ctatggaacc ggggtctttg 180
 cccagggacg atgctcaccg ggactagact gtgccatccc aactgggaat tcactcgtcg 240
 aaccttacat tgctggccac aacattcttc tagcccacgc tgaggctgtt gatctttaca 300
 acaagtatta caagggcgag aacggncgc ataggtcttg catttgatgt aatgggtcgt 360
 gtgccatacn gaacatcatt tctagatnaa caggcccaan naagggccct ngacattaac 420
 ctangatggn tcntngganc ctgtgnt 447

<210> 169
 <211> 454
 <212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(454)

<223> unsure at all n locations

<400> 169

cgtacgcgcg agctnngnct ntggcgtttg cccatttcg gtnctcacct ggactagact 60
 gtgcctnccc angtgggaat tcactcgtcg agccttacac tgctggccat aacattctcc 120
 tagccacgc tgaggctggt gatctttaca acaagcatta caagcgcgac gacacccgca 180
 tagggcttgc gtttgacgta atgggtcgtg tgccatacgg aacatcgttt ctggataaac 240
 aggccgaaga aaggtcctgg gacatcaacc taggatggtt cttagagcca gtggttcgtg 300
 gtgactaccc cttctccatg agatcattgg ctagggaacg actacccttc ttcaaggacg 360
 agcagaagga gaagctcgcg gtcctataac atgttggggg taaactacta cacctcacgg 420
 ttctcaaaaa catcgatatc tcaccaaact actc 454

<210> 170

<211> 439

<212> DNA

<213> Zea mays

<400> 170

cgtgaggct gttgatcttt acaacaagca ttacaagcgc gacgacaccc gcatgggggt 60
 tgcgtttgac gtaatgggtc gtgtgccata cggaacatcg tttctggata aacaggccga 120
 agaaaggctc tgggacatca acctaggatg gttcttagag ccagtgggtc gtggtgacta 180
 ccccttctcc atgagatcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 240
 ggagaagctc gccggttcct ataacatgtt ggggttaaac tactacacct cacggttctc 300
 caaaaacatc gatatctcac caaactactc acctgtgctc aacacttgac gacgcctacg 360
 ccagtcaaga aagttaacgg gcctgacggg aagcccattg gtccttctat gggaaatcca 420
 tggatctaca tgtaccctg 439

<210> 171

<211> 434

<212> DNA

<213> Zea mays

<220>

<221> unsure


```

agcagctcaa aactctagct agctaccagg ggggaaaatg gctccacttc tcgccgcagc 60
catgaaccac gctacccatc cagtccttag aagccatcta ggaccaaca atgagagttt 120
ctcacgacac cacctatctt cttcaccaca aagcagtaag cgaaggttta accttagctt 180
tacgccacga tctgcaaggg taggcaatga aaatggagtc caattggtga gccctcgga 240
aatccctcga agggactggg tcccctctga cttcatcttt ggtgccgcca cttcagcgta 300
ccaaattgaa ggtgcatgga acgaagatgg aaagggggaa agcaattggg atcacttctg 360
ccacaatttt ccggaagga taatggacgg gagcaatgca gacattggga gcgaattcgt 420
accaaaa 426

```

```

<210> 174
<211> 396
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(396)
<223> unsure at all n locations

```

```

<400> 174

caaatgtgca aggctacttc gcttgggtctc tgctggacaa ctttgaatgg ttcgccggct 60
tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa taactgcacg cgctacatga 120
aggagtctgc caagtgggtg aaacagttca acgccgcgaa gaagcccagc aagaagattc 180
ttacgccagc ttagaaatcg ggggcctcat gatgtgggtg cagcccataa aaaactgggtg 240
tgtggtttgg aaccgaaaat tttctgnttt tttccgccac gagaggttct ggaggcatac 300
tctncagcac cgtgggtaat aacgcattgt tccaattcaa tctggccttg tcatgcatgc 360
aataaataaa gtgatgggtt tccctgggtc aatatc 396

```

```

<210> 175
<211> 435
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(435)
<223> unsure at all n locations

<400> 175

```

```
aggagaagct cgccgggtcc tataacatgt tgggggttaa ctactacacc tcacgggttct 60
ccaaaaacat cgatatctca ccaaactact cacctgtgct caacactgac gacgcctacg 120
ccagtcaaga agttaacggg cctgacggga agcccattgg tcctcctatg ggaaatccat 180
ggatctacat gtaccctgag ggcttgaagg atctccttat gatcatgaag aacaaatacg 240
gaaacccacc tatctacatc acggagaacg gaatcgggga tgttgatacc aaggagacac 300
ctctacccat ggaggatgcc ttaaagact acaaaaggct agattacatn caagcgccac 360
atcgctactc ttaaggaatc aatagacttg ggatcaaaat gtgcaanggg tactttgctt 420
gggctctgnt ggaca 435
```

```
<210> 176
<211> 453
<212> DNA
<213> Zea mays
```

```
<220>
<221> unsure
<222> (1)...(453)
<223> unsure at all n locations
```

```
<400> 176
```

```
gacgtaatgg gtcgtgtgcc atacggaana tcgtttctgg ataaacaggc cgaagaaagg 60
ncctgggaca tcaacctagg atgggttctta gagccagtgg ttcgtggtga ctacccttc 120
tccatgagat cattggctag ggaacgacta cccttcttca aggacgagca gaaggagaag 180
ctcgccgggt cctataacat gttgggggta aactactaca cctcacgggt ctccaaaaac 240
atcgatatct caccaaacta ctcacctgtg ctcaacactg acgacgccta cgccagtcaa 300
gaagttaacg ggcctgacgg gaagcccatt ggtcctccta tgggaaatcc atggatctca 360
tgtaccctga gggcttgaag ggatctcctt atgaatcatg aagnaccaat tccggaaacc 420
cacctatcta cattaccgga gaacgggatt cgg 453
```

```
<210> 177
<211> 409
<212> DNA
<213> Zea mays
```

```
<220>
<221> unsure
<222> (1)...(409)
<223> unsure at all n locations
```

```
<400> 177
```


gtgcctaccc aactgggaat tcactcgtcg agccttacac tgctggccat aacattctcc 240
tagcccacgc tgaggctggt gatctttaca acaagcatta caagcgcgac gacacccgca 300
tagggcttgc gtttgacgta atgggtcgtg tgccatacgg aacatcgttt ctgggataaa 360
canggccgaa gaaaagtcct gggaaatcaa cctanggatg ggtcctaaag ccaattgntc 420
ntggtgaacn acccctcnc aananattat tggctaggga aca 463

<210> 182
<211> 337
<212> DNA
<213> Zea mays

<400> 182

gggaaatcca tggatctaca tgtaccctga gggcttgaag gatctcctta tgatcatgaa 60
gaacaaatac ggaaaccac ctatctacat cacggagaac ggaatcgggg atgttgatac 120
caaggagaca cctctaccca tggaggatgc cttaaagac tacaaaaggc tagattacat 180
ccagcgccac atcgctactc ttaaggaatc aatagacttg ggatcaaagtg tgcaaggcta 240
cttcgcttgg tctctgctgg acaactttga atggttcgcc ggcttcaccg aacggttatgg 300
cattgtctac gtcgaccgca acaattactg cacgcgt 337

<210> 183
<211> 343
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)... (343)
<223> unsure at all n locations

<400> 183

acggaacatc gtttctggat aaacaggccg aagaaaggct ctgggacatc aacctaggat 60
gnttcttaga gccagtgggt cgtgggtgact accccttctc catgagatca ttggctaggg 120
aacgactacc cttcttcaag gacgagcaga aggagaagct cgccggttcc tataacatgt 180
tggggttaaa ctactacacc tcacgggttct ccaaaaacat cgatatctca ccaaactact 240
cacctgtgct caacactgac gacgcctacg ccagtcaaga agttaacggg cctgacggga 300
agcccatggg cctcctatgg gaaatccatg gatctacatg tac 343

<211> 329
<212> DNA
<213> Zea mays

<400> 186

attggtcctc ctatgggaaa tccatggatc tacatgtacc ctgagggctt gaaggatctc 60
cttatgataa tgaagaacaa atacggaaac ccacctatct acatcaccga gaacggaatc 120
ggggatgttg ataccaaaga gacacctcta cccatggagg ctgccttaaa tgactacaaa 180
aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga cttgggatca 240
aatgtgcaag gctacttcgc ttgggtctctg ctggacaact ttgaatgggt tgccggcttc 300
accgaacgtt atggcattgt ctacgtcga 329

<210> 187
<211> 332
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(332)
<223> unsure at all n locations

<400> 187

caaagctcta gttctagcta gctagcaaan ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccacacctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgcccgtct tcttctccac agagcagcaa gcgaagggtgt 180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgttg 240
agcccctcgg aaatcccaca aagggaactgg ttcccctctg acttcacctt cggtgcccgc 300
acttcagcgt accaaattga aggtgcttgg aa 332

<210> 188
<211> 487
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(487)
<223> unsure at all n locations

<400> 188

gcgcggacgc cctgggacat caacctanga tngtnnttag agccactggn gcattggtga 60

ctacccctgg nccgnganat catnggctng ggaacgacta cccttntnca angccganca 120
naangagaan ctncggntc ctataacatg ttncgggttaa actactacac ctcacgggttc 180
tccanaaaca tcgatatctc accaaactac tcacctgtgc tcaaacactga cgacccctac 240
nccngtcaag annttaacgn gcctcacngg aancccatg gtcctcctat cggaaatcca 300
tgnatctaca tgnaccctga gggcttgaag gatcttctta tgatcatgan naacnantac 360
tggaaaccca cctatctaca tcacggataa ccgaatccng gatgntgatc caatgaagac 420
acctttance atggnacgat ccttananta ctnccaaaan cttgattaca ntcancggca 480
attngtt 487

<210> 189
<211> 343
<212> DNA
<213> Zea mays

<400> 189
caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt 180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgttg 240
agccctcga aatcccacaa agggactggg tcccctctga cttcaccttc ggtgccgcca 300
ttcagcgtac caaattgaag gtgcttggaa tgaagatgga aag 343

<210> 190
<211> 331
<212> DNA
<213> Zea mays

<400> 190
agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
aagggtgtaac cttagcttta ctacacgatc tgcaagagta ggcagccaaa atggagtcca 240
aatgttgagc ccctcggaat tcccacaaag ggactgggtc ccctctgact tcaccttcgg 300
tgccgccact tcagcgtacc aaattgaagg t 331

<210> 191
 <211> 324
 <212> DNA
 <213> Zea mays

<400> 191

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgtt 240
 agccccctcg aaatcccaca aagggaactgg tccccctctg acttcacctt cgggtgccgcc 300
 acttcagcgt accaaattga aggt 324

<210> 192
 <211> 322
 <212> DNA
 <213> Zea mays

<400> 192

gaaaatggct ccgcttctcg ctgctgccat gaaccacgct gcagcccatc ctggccttag 60
 gagccaccta gtaggaccca acaatgagag tttctcacgg caccacctgc cgtcttcttc 120
 tccacagagc agcaagcgaa ggtgtaacct tagctttact acacgatctg caagagtagg 180
 cagccaaaat ggagtccaaa tggtgagccc ctcggaaatc ccacaaaggg actggttccc 240
 ctctgacttc accttcgggtg ccgccacttc agcgtaccaa attgaagggtg cttggaatga 300
 agatggaaag ggggaaagca ac 322

<210> 193
 <211> 324
 <212> DNA
 <213> Zea mays

<400> 193

cgacgacacc cgcatagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc 60
 gtttctggat aaacaggccg aagaaaggct ctgggacatc aacctaggat gggtcttaga 120
 gccagtgggt cgtgggtgact accccttctc catgagatca ttggctaggg aacgactacc 180
 cttcttcaag gacgagcaga aggagaagct cgccgggttc tataacatgt tgggggttaa 240
 ctactacacc tcacggttct ccaaaaacat cgatatctca ccaaactact cacctgtgct 300

caacactgac gacgcctacg ccat 324

<210> 194
<211> 331
<212> DNA
<213> Zea mays

<400> 194

cttggttgcta gaaaacggca tagagccata tgtaacaatt ttccactggg atgtacctca 60
agcactagaa gagaagtacg gcggcttcct agataagagt cataagagca ttgtagaaga 120
ttacacatac ttgctaagg tgtgctttga taacttcggc gacaagggtga agaagggttga 180
cctttaatga gccccagaca ttacttcct tttcctacgg aactgggggtc tttgccccag 240
gtcgggtgctc acctggacta gactgtgcct acccaactgg gaattcactc gtcgagcctt 300
acactgctgg ccataacatt ctcttagccc a 331

<210> 195
<211> 320
<212> DNA
<213> Zea mays

<400> 195

gaggctgttg atctttacaa caagcattac aagcgcgacg acacccgcat agggcttgcg 60
tttgacgtaa tgggtcgtgt gccatacgga acatcgtttc tggataaaca ggccgaagaa 120
aggtcctggg acatcaacct aggatgggtc ttagagccag tgggtcgtgg tgactacccc 180
ttctccatga gatcattggc tagggaacga ctacccttct tcaaggacga gcagaaggag 240
aagctcgccg gttcctataa catgttgggg ttaaactact acacctcacg gttctccaaa 300
aacatcgata tctcaccaaa 320

<210> 196
<211> 322
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(322)
<223> unsure at all n locations

<400> 196

gggaacgact acccttcttc aaggacgagc agaaggagaa gctcgccggg tcctataaca 60

<210> 199
 <211> 318
 <212> DNA
 <213> Zea mays

<400> 199

agcaattcag acattggagc gaattcgtac catatgtaca aaacggacgt cagattgctc 60
 aaggaaatgg gcatggacgc atataggttc tctatctctt ggcccagaat actgccgaag 120
 ggaaccaaag aaggaggtat taacccggat ggcatcaagt actacagaaa cctcatcaac 180
 ttgttgctag aaaacggcat agagccatat gtaacaattt tccactggga tgtacctcaa 240
 gcactagaag agaagtacgg cggcttccta gataagagtc ataagagcat tgtagaagat 300
 tacacatact ttgctaag 318

<210> 200
 <211> 341
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(341)
 <223> unsure at all n locations

<400> 200

cggacntggg cntagctagc aggggggggaa atggctccac ttctcgccgc agccatganc 60
 cacgctgccc atccagtcct tagaagccat ctaggaccca acaatgagag tttctcacga 120
 caccacctat cttcttcanc gcaaagcagt aaagcgaagg tttaacctta gctttacgcc 180
 acgatctgca agagtaggca atcaaaatgg agtccaattg ttgagccctt cggaaatccc 240
 tcgaagggac tggttcccct ccgacttcat ctttggtgcc gccacttcag cgtaccaaatt 300
 tgaaggtgct tggaacgaag atggaaaggg ggaaagcaat t 341

<210> 201
 <211> 323
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(323)
 <223> unsure at all n locations

<400> 201

<220>
 <221> unsure
 <222> (1)...(315)
 <223> unsure at all n locations

<400> 204

gttctagcta gctagcaaan ggggggaaaa tggctccgct tctcgctgct gccatgaacc 60
 acgctgcagc ccatacctggc cttaggagcc acctagtagg acccaacaat gagngtttct 120
 cacggaacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt aaccttagct 180
 ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg 240
 aaatcccaca aagggactgg tccccctctg acttcacctt cggtgccgcc acttcagcgt 300
 accaaattga aggtg 315

<210> 205
 <211> 321
 <212> DNA
 <213> Zea mays

<400> 205

gtacggcggg attcttagat aagactcata agaggattgt aaatgattac aaaaacttcg 60
 ctaagggtgtg cttcgacaac tttggtgaca aggtgaagaa ttggttgacc tttaatgagc 120
 cccagacatt tacttcattt tcctatggaa ccgggggtctt tgccccagga cgatgctcac 180
 cgggactaga ctgtgccatc ccaactggga attcactcgt cgaaccttac attgctggcc 240
 acaacattct tctagcccac gctgaggctg ttgatcttta caacaagtat tacaagggcg 300
 agaacggccg cataggtctt g 321

<210> 206
 <211> 335
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(335)
 <223> unsure at all n locations

<400> 206

tctacatgta ccctgagggc ttgaaggatc tccttatgat antgaagaac aaatacggaa 60
 acccacctat ctacatcacc gagaacggaa tccgggggatg ttgataccaa agagacacct 120

ctacccatgg aggctgcctt aaatgactac aaaaggctag attacatcca gcgccacata 180
 cgctactctt aaggaatcaa tagacttggg atcaaattgtg caaggctact tcgcttggtc 240
 tctgctggac aactttgant ggtttgccgg cttcaccgaa cgttatggcn tgtctacgtc 300
 gaccgcaaca ataactgcac gcgctacatg aagga 335

<210> 207
 <211> 346
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (346)
 <223> unsure at all n locations

<400> 207

gaagaacaaa tacggaaacc cacctatcta catcacngag aacggaatcg gggatgttga 60
 taccaaggag acacctctac ccatggagga tgccttaaata gactacaaaa ggctagatta 120
 catccagcgc cacatcgcta ctcttnaggn atcnatagac ttgggatcaa atgtgcaagg 180
 ctacttcgct tggctctctgc tggacaactt tgaatgggtc gccggcttca ccgaacgtta 240
 tggcattgtc tacgtcgacc gcaacnataa ctgcacnggt acatgaagga gtctgccaag 300
 tggttgaaac ngttcnacgc nncgaagaag ccccnagcaag aagatt 346

<210> 208
 <211> 360
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (360)
 <223> unsure at all n locations

<400> 208

taacattctc ctagccacg ctgaggctgt tgatctttac aacaagcatt acaagcgga 60
 cgacaccgc atagggattg cgtttgacgt aatgggtcgt gtgccatacg gaacatcggt 120
 tctggataaa caggccgaag aaaggtcctg ggacatcaac ctaggatggg tcttagagcc 180
 agtggttcgt ggtgactacc cttctccat gagatcattg gctaggggaac gactaccctt 240
 cttcaaggac gagcagaagg agaagctcgc cggttcctat aacattgttg gggttaacta 300
 tacacctcag gttctccaaa aacatcgata tctcaccaac tatcactgtg ctcaacntga 360

<210> 209
 <211> 307
 <212> DNA
 <213> Zea mays

<400> 209

gctagctagc aaagggggggg aaaatggctc cgcttctcgc tgctgccatg aaccacgctg 60
 cagcccatcc tggccttagg agccacctag taggacccaa caatgagagt ttctcacggc 120
 accacctgcc gtcttcttct ccacagagca gcaagcgaag gtgtaacctt agctttacta 180
 cacgatctgc aagagtaggc agccaaaatg gagtccaaat gttgagcccc tcggaaatcc 240
 cacaaagggg ctggttcccc tctgacttca ccttcggtgc cgccacttca gcgtacccaa 300
 ttgaagg 307

<210> 210
 <211> 321
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(321)
 <223> unsure at all n locations

<400> 210

gggggggaaaa tggctccact tctcgccgca gccatgaacc acgctaccca tccagtcctt 60
 agaagccatc taggacccaa caatgngagt ttctcacgac accacctatc ttcttcacca 120
 caaagcagta agcgaagggt taaccttagc tttacgccac gatctgcaag ggtaggcaat 180
 gaaaatggag tccaattggt gagcccctcg gaaatccctc gaagggactg gttcccctct 240
 gacttcatct ttggtgccgc cacttcagcg taccaaattg aaggtgcatg gaacgaagat 300
 ggaaaggggg aaagcaattg g 321

<210> 211
 <211> 308
 <212> DNA
 <213> Zea mays

<400> 211

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat 120

gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg 240
 agcccctcgg aaatcccaca aagggactgg tcccctctg acttcacctt cggtgccgcc 300
 acttcagc 308

<210> 212
 <211> 320
 <212> DNA
 <213> Zea mays

<400> 212

actgacgacg cctacgccag tcaagaagtt aacgggcctg acgggaagcc cattggtcct 60
 cctatgggaa atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgatc 120
 atgaagaaca aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatggt 180
 gataccaagg agacacctct acccatggag gatgccttaa atgactacaa aaggctagat 240
 tacatccagc gccacatcgc tactcttaag gaatcaatag acttgggatc aaatgtgcaa 300
 ggctattcgc tggctctctgc 320

<210> 213
 <211> 331
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(331)
 <223> unsure at all n locations

<400> 213

caaaactcta gctagctacc anggggggaaa atgggtccac ttctcgccgc agccatgaac 60
 cacgctaccc atccagtcct tagaagccat ctaggacca acaatgagag tttctcacga 120
 caccaactat cttcttcacc acaaagcagt aagcgaaggt ttaaccttag ctttacgcca 180
 cgatctgcaa gggtaggcaa tgaaaatgga gtccaattgt tgagcccctc ggaaatccct 240
 cgaagggact ggttcccctc tgacttcaac tttgggtggcg gcacttcagc gtanccaatt 300
 gaaagtgcac ggaacgaaga tggaaagggg g 331

<210> 214
 <211> 304

<210> 217
 <211> 303
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(303)
 <223> unsure at all n locations

<400> 217

anaaaacggc atagagccat atgtaacaat tttccactgg gatgtacctc aagcactaga 60
 agagaagtac ggcggcttcc tagataagag tcataagagc attgtagaag attacacata 120
 ctttgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt tgacctttaa 180
 tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc caggtcggtg 240
 ctcacctgga ctagactgtg cctacccaac tgggaattca ctgctcgagc cttacactgc 300
 tgg 303

<210> 218
 <211> 303
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(303)
 <223> unsure at all n locations

<400> 218

gctagattac atccagcgcc acatcgctac tcttaaggaa tcaatagact tgggatcaaa 60
 tgtgcaaggc tacttcgctt ggtctctgct ggacaacttt gaatgggttcg ccggcttcac 120
 cgaacgttat ggcattgtct acgtcgaccg caacaataan tgcacgcgct acatgaagga 180
 gtctgccaag tgggttgaaac agttcaacgc cgcaagaag cccagcaaga agattcttac 240
 gccagcttag aaatcggggg cctcatgatg tgggtgcagc ccataaaaaa ctgggtgtgtg 300
 gtt 303

<210> 219
 <211> 309
 <212> DNA
 <213> Zea mays

<220>

caaatgttga gccctcgga aatcncacaa agggactggt tcccctctga cttcaccttc 300
ggtgccgcca ct 312

<210> 222
<211> 309
<212> DNA
<213> Zea mays

<400> 222

caattttcca ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcctagata 60
agagtcataa gagcattgta gaagattaca catactttgc taagggtgtgc tttgataact 120
tcggcgacaa ggtgaagaat tgggtgacct ttaatgagcc ccagacattt acttcctttt 180
cctacggaac tggggctcttt gcccaggtc ggtgctcacc tggactagac tgtgcctacc 240
caactgggaa ttcactcgtc gagccttaca ctgctggcca taacattctc ctagcccagc 300
tgaggctgt 309

<210> 223
<211> 305
<212> DNA
<213> Zea mays

<400> 223

gcaccacctg ccgtcttctt ctccacagag cagcaagcga aggtgtaact tagctttact 60
acacgatctg caagagtagg cagccaaaat ggagtccaaa tgttgagccc ctcggaatc 120
ccacaaaggg actgggtccc ctctgacttc accttcggtg ccgccacttc agcgtaccaa 180
attgaagggtg cttggaatga agatggaaag ggggaaagca actgggatca cttctgccac 240
aatcatccgg aaaggatact ggacgggagc aattcagaca ttggagcgaa ttcgtaccat 300
atgta 305

<210> 224
<211> 319
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(319)
<223> unsure at all n locations

<400> 224

aacccaccta tctacatcaa ngagaacgga atcgnggatg ttgataccaa ggagacacct 60
 ctacccatgg aggatgcctt aaatgactac aaaaggctag attacatcca gcgccacatc 120
 gctactctta aggaatcaat agacttggga tcaaagtgtgc aaggctactt cgcttgggtct 180
 ctgctggaca actttgaatg gttcgccggc ttcaccgaac gttatggcat tgtctacgtc 240
 gaccgcaaca ataactgcac gcgctacatg aaggagtctg ccagtgggtg aaacagttca 300
 ngccgcgaag aagcccagc 319

<210> 225
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 225

tttacttctt tttctacgg aactgggggtc tttgccccag gtcgggtgctc acctggacta 60
 gactgtgcct acccaactgg gaattcactc gtcgagcctt acactgctgg ccataacatt 120
 ctctagccc acgctgaggc tgttgatctt tacaacaagc attacaagcg cgacgacacc 180
 cgcatagggc ttgcgtttga cgtaatgggt cgtgtgccat acggaacatc gtttctggat 240
 aaacaggccg aagaaagggtc ctgggacatc aacctaggat gggttcttaga gccagtg 297

<210> 226
 <211> 337
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(337)
 <223> unsure at all n locations

<400> 226

ctctgctggg acaactttga atgggttcgcc ggcttcaccg aacgttatgg gcattgtcta 60
 cgtcgaccgc aacaataact gcaacgcgct aacatgaagg agtctgccaa gtgggttgaaa 120
 cagttcaacg ccgcgaagaa gccagcaag aagattctta cgccagctta gaaatcgggg 180
 gcctcatgat gtgngtgcag cccataaaaa actggtgtgt ggtttcgaac cgaaaatttt 240
 ctgttttttt tccgccacga gaggttctgg aggcatactc tccagcaccg tggctaataa 300
 cgcattgttc cattcagtct ggccttgtca tgcatgc 337

<210> 227

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<211>      317
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(317)
<223>      unsure at all n locations

<400>      227

cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt aaccntagct   60
ttacnacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg  120
aaatcccaca aagggactgg ttcccctctg acttcaactt cggtgccgcc acttcagcgt  180
accaaattga agntgcttgg aatgaagatg gaaaggggga aagcaactgg gatcacttct  240
ggcacaatca tcggaaagga tactggacgg gagcnantca gacattggag cgaantcgta  300
ccatatgtac aaacggg                                     317

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<210>      228
<211>      320
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(320)
<223>      unsure at all n locations

<400>      228

tgccgnnttc ttctncacag agcagcangc gtaggtgtaa ccttagcttt actacacgnt   60
ctgcaagagt aggcngccaa aatggantcc aaatgttgag cccctcggaa atcccacaaa  120
gggactgggt cccctctgac ttcaccttcg gtgccgccac ttcagcgtac caaattgaag  180
gtgcttgga tgaagatgga aagggggaaa gcaactggga tcacttctgc cacaatcatc  240
cggaaaggat actggacngg agcaattcag acattggagc gaattcgtcc atatgttcaa  300
aacggacgtc agattgctna                                     320

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<210>      229
<211>      343
<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(343)

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<223> unsure at all n locations

<400> 229

gcgacgacac ccgcataggg cttgcgtttg acgtaatggg tcgtgtgcca tacngaacat 60
 cgtttctgga taaacaggcc gaagaaaggt catgggacat caacctagga tggttcttag 120
 agccagtggg tcgtggtgac tacccttctt ccatgagatc attggctagg gaacgactac 180
 ccttcttcaa ggacgagcag aaggagaagc tcgccggttc ctataacatg ttgggggttaa 240
 actactacac ctcacgggtc tccaaaaaca tcgacatctc accaaactat cactgtgctc 300
 aacatgacga ccgcctacgc catcaagaag tangggctga cgg 343

<210> 230

<211> 300

<212> DNA

<213> Zea mays

<400> 230

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aagggtgtaac cttagcttta ctacacgac tgcaagagta ggcagccaaa atggagtcca 240
 aatgttgagc ccctcggaaa tcccacaaag ggactgggtc ccctctgact tcaccttcgg 300

<210> 231

<211> 295

<212> DNA

<213> Zea mays

<400> 231

ctcaaagctc tagttctagc tagctagcaa aggggggggaa aatggctccg cttctcgctg 60
 ctgccatgaa ccacgctgca gcccatcctg gccttaggag ccacctagta ggaccaaca 120
 atgagagttt ctcacggcac cacctgccgt cttcttctcc acagagcagc aagcgaaggt 180
 gtaaccttag ctttactaca cgatctgcaa gagtaggcag ccaaaatgga gtccaaatgt 240
 tgagcccctc ggaaatccca caaagggact ggttcccctc tgacttcacc ttcgg 295

<210> 232

<211> 461

<212> DNA

<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(461)
 <223> unsure at all n locations

<400> 232

agccacaatt ttccgnaaag gataatggga cggggagcat tgcaagacat tgggccgatt 60
 ncgtaccata tngtacaaaa cggatngtca gattgctnga aggaaatggg catggacgca 120
 tataggttct ctatctcttg gcctagaata ctggcctaaa ggggaacggt ccaaaggagg 180
 tattaaccag gatggcatcg attactacaa aaaggetcat caacttggtg ctagagaatg 240
 gcatagagcc atatgtaaca attttccact gggatgtccc tcaagcacta gaagagaagt 300
 acggcggatt cttagataag actcataaga ggattgtaaa tgattacaaa aacttcgcta 360
 aggtgtgctt cgacaacttt ggtgacaang tgaagaantg gttgancntt aatgaagccc 420
 caaacattta cctcaatttc ccaanngaaa ccggggtcct t 461

<210> 233
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 233

ctcgtcgagc cttacactgc tggccataac attctcctag cccacgctga ggctgttgat 60
 ctttacaaca agcattacaa gcgogacgac acccgcatag ggcttgcggt tgacgtaatg 120
 ggctcgtgtgc catacggaac atcgtttctg gataaacagg ccgaagaaag gtcctgggac 180
 atcaacctag gatggttctt agagccagtg gttcgtgggt actaccctt ctccatgaga 240
 tcattggcta gggaaacgact acccttcttc aaggacgagc agaaggagaa 290

<210> 234
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 234

gaaggatctc cttatgatca tgaagaacaa atacggaaac ccacctatct acatcacgga 60
 gaacggaatc ggggatgttg ataccaagga gacacctcta cccatggagg atgccttaaa 120
 tgactacaaa aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga 180
 cttgggatca aatgtgcaag gctacttcgc ttggtctctg ctggacaact ttgaatgggt 240

cgccggcttc accgaacggt atggcattgt ctacgtcgac cgcaacaata 290

<210> 235
<211> 291
<212> DNA
<213> Zea mays

<400> 235

cgctgaggct gttgatcttt acaacaagca ttacaagcgc gacgacaccc gcatagggct 60
tgcgtttgac gtaatgggtc gtgtgccata cggaacatcg tttctggata aacaggccga 120
agaaagggtca tgggacatca acctaggatg gttcttagag ccagtgggtc gtggtgacta 180
cccccttctcc atgagatcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 240
ggagaagctc gccggttcct ataacatggt ggggttaaac tactacacct c 291

<210> 236
<211> 288
<212> DNA
<213> Zea mays

<400> 236

gtcataagag cattgtagaa gattacacat actttgctaa ggtgtgcttt gataacttcg 60
gcgacaaggt gaagaattgg ttgaccttta atgagcccca gacatttact tccttttcct 120
acggaactgg ggtctttgcc ccaggctcgt gctcacctgg actagactgt gcctacccaa 180
ctgggaattc actcgtcgag ccttacactg ctggccataa cattctccta gccacgctg 240
aggctgttga tctttacaac aagcattaca agcgcgacga caccgcga 288

<210> 237
<211> 288
<212> DNA
<213> Zea mays

<400> 237

gggacatcaa cctaggatgg ttcttagagc cagtgggttcg tggtgactac cccttctcca 60
tgagatcatt ggctaggga cgactaccct tcttcaagga cgagcagaag gagaagctcg 120
ccggttccta taacatgttg ggggttaaact actacacctc acggttctcc aaaaacatcg 180
atatctcacc aaactactca cctgtgctca aactgacga cgcctacgcc agtcaagaag 240
ttaacggggc tgacgggaag cccattgggt ctcctatggg aaatccat 288

<210> 238
 <211> 290
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (290)
 <223> unsure at all n locations

<400> 238

caagcgcgac gacacccgca tagggcttgc gtttgacgta atgggtcgtg tgccatacgg 60
 aacatcgttt ctggataaac aggccgaaga aaggtcctgg gacatcaacc taggatgggt 120
 cttagagcca gnggttcgtg gtgactaccc cttctccatg agatcattgg ctagggaacg 180
 actacccttc ttcaaggacg agcagaagga gaagctcgcc gggttcctata acatgttggg 240
 gttaaactac tacacctcac gggttctcaa aaacatcgat atctcaccaa 290

<210> 239
 <211> 292
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (292)
 <223> unsure at all n locations

<400> 239

tgcattggcta cttcgcttgg tctctgctgg ataactttga atggtagcgc ggctacaccg 60
 aacgttatgg cattgtctac gtcgaccgca aaaataacta cagcgctac atgaaggagt 120
 cagccaagtg gttaaaagag ttcaatactg cgaagaagcc tagcaagaag attattacgc 180
 cagcttaaaa acatgggacc tcgtgatgtg ggtacgggtgc caccatgaa ataaaaacct 240
 agtgtgtggt ttgaaaccta aatttttctt tttctttttt gcaccatgag ag 292

<210> 240
 <211> 291
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)... (291)
 <223> unsure at all n locations

<400> 240
 ggaaaatggc tccgcttctc gctgctgcca tgaaccacgc tgcagcccat cctggcctta 60
 ggagccacct agnaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
 ctccacagag cagcaagcga aggtgtaacc ttagctttac tacacgatct gcaagagtag 180
 gcagccaaaa tggagtccaa atgttgagcc cctcggaaat cccacaaagg gactggttcc 240
 cctctgactt caccttcggt gccgccactt cagcgtacca aattgaaggt g 291

<210> 241
 <211> 319
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)... (319)
 <223> unsure at all n locations

<400> 241
 ggatcaaattg tgcaaggcta ctctgcttgg tctctgcngg acaactttga atngttcgcc 60
 ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg cacgcgctac 120
 atgaaggagt ctgccaagtg gttgaaacag ttcaacgccg cgaagaagcc cagcaagaag 180
 attcttaacgc cagcttagaa atcggggggcc tcatgatgtg ggtgcagcnc ataaaaaact 240
 ggtgtgtggt ttccaaccgn natttctgtt tttccgccac gagagttctg gaggcatact 300
 ctccagcacc gtgctaata 319

<210> 242
 <211> 286
 <212> DNA
 <213> Zea mays

<400> 242
 cgcctacgcc agtcaagaag ttaacggggc tgacgggaag ccattgggtc ctcttatggg 60
 aaatccatgg atctacatgt accctgaggg cttgaaggat ctcttatga tcatgaagaa 120
 caaatacggg aaccaccta tctacatcac ggagaacgga atcgggggatg ttgataccaa 180
 ggagacacct ctacccatgg aggatgcctt aaatgactac aaaaggctag attacatcca 240
 gcgccacatc gctactctta aggaatcaat agacttgga tcaaat 286

<210> 243

<211> 298
<212> DNA
<213> Zea mays

<400> 243

gtacggcggc ttcctagaaa acggcataga gccatatgta acaattttcc actgggatgt 60
acctcaagca ctagaagaga agtacggcgg cttcctagat aagagtcata agagcattgt 120
agaagattac acatactttg ctaaggtgtg ctttgataac ttcggcgaca aggtgaagaa 180
ttggttgacc tttaatgagc cccagacatt tacttccttt tcctacggaa ctgggggtctt 240
tgccccaggt cgggtgctcac ctggactaga ctgtgcctac ccaactggga attcactc 298

<210> 244
<211> 326
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(326)
<223> unsure at all n locations

<400> 244

aattgaaggt gcttggaatg aanatggaaa ngnggaaagc aactgggatc acttctgcca 60
caatcatccg gaaangatac tggacgggag caattcagac attggagcga ntctgtacca 120
tatgtacaaa acggacgtca gattgctcaa ggaaatgggc atggacgcat ataggttctc 180
tatctcttgg gccagaata ctgccgaagg aaccaaagaa ggaggtatta acccggatgg 240
catcaagtac tacagaaacc tcntcaactt gttgctggaa aacggcntan agccatntgt 300
aacanttttc cactgggatg tacctc 326

<210> 245
<211> 284
<212> DNA
<213> Zea mays

<400> 245

cccagacatt tacttcattt tcctatggaa ccgggggtctt tgccccagga cgatgctcac 60
cgggactaga ctgtgccatc ccaactggga attcactcgt cgaaccttac attgctggcc 120
acaacattct tctagcccac gctgaggctg ttgatcttta caacaagtat tacaagggcg 180
agaacggccg cataggtctt gcatttgatg taatgggtcg tgtgccatac ggaacatcat 240

ttctagatga acaggccaaa gaaaggtcca tggacattaa ccta 284

<210> 246
<211> 295
<212> DNA
<213> Zea mays

<400> 246

gaaaggggga aagcaactgg gatcacttct gccacaatca tccggaaagg atactggacg 60
ggagcaattc agacattgga gcgaattcgt accatatgta caaaacggac gtcagattgc 120
tcaaggaaat gggcatggac gcatataggt tctctatctc ttggcccaga atactgccga 180
aggaaccaa agaaggaggt attaaccgg atggcatcaa gtactacaga aacctcatca 240
acttggtgct ggaaaacggc atagagccat atgtaacaat tttccatggg atgta 295

<210> 247
<211> 294
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(294)
<223> unsure at all n locations

<400> 247

caacttggtg ctagaaaacg gcatagagcc atatgtaaca attttccact gggatgtacc 60
tcaagcacta gaagagaagt acggcggctt cctagataan agtcataaga gcattgtaga 120
agattacaca tactttgcta aggtgtgcnt tgataacttc ggcgacaagg tgaagaattg 180
gttgaccttt aatgagcccc agacatttac ttccttttcc tacggaactg gggctctttgc 240
cccaggtcgg tgctcactgg actagactgt gcctacccaa ctgggaattc actc 294

<210> 248
<211> 284
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 248

gaattgggtg acctttaatg agccccagac atttacttcc ttttctacg gaactggggt 60

ctttgccccca ggtcgggtgct cacctggact agactgtgcc tacccaactg ggaattcact 120
 cgtcgagcct tacactgctg gccataacat tctcctagcc cacgctgagg ctgttgatct 180
 ttacaacaag cattacaagc gcgacgacac ncgcataggg cttgcgtttg acgtaatggg 240
 tcgtgtgcca tacggaacat cgtttctgga taaacangcc gaag 284

<210> 249
 <211> 284
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 249

ctttacaaca agcattacaa gcgcgacgac acccgcatag ggcttncgtt tgacgtaatg 60
 ggtcgtgtgc catacggaac atcgtttctg gataaacagg ccgaagaaag gtcctgggac 120
 atcaacctag gatggttctt agagccagtg gttcgtgggtg actaccctt ctccatgaga 180
 tcattggcta gggaacgact acccttcttc aaggacgagc agaaggagaa gctcgccggt 240
 tcctataaca tgttgggggtt aaactactac acctcacggt tctc 284

<210> 250
 <211> 304
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(304)
 <223> unsure at all n locations

<400> 250

agaagattac acatactttg ctaaggtgtg ctttgataac ttcggcgaca aggtgaagaa 60
 ttggttgacc tttaatgagc ccagacatt tacttccttt tcctacggaa ctgggggtctt 120
 tgccccaggt cggtgctcac ctggactaga ctgtgcctac ccaactggga attcactcgt 180
 cgagccttac actgctggcc ataacattct cctagcccan gctgaggctg ttgatcttta 240
 caaccnngca ttacangcgc gacgacaccc gcataggggt tgcgntttga cgtaatgggt 300
 ngtg 304

<210> 251
 <211> 287
 <212> DNA
 <213> Zea mays

<400> 251

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccattcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtgt 180
 aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgttg 240
 agcccctcgg aaatcccaca aagggatggg tcccctctga cttcact 287

<210> 252
 <211> 291
 <212> DNA
 <213> Zea mays

<400> 252

aatggctcca cttctcgccg cagccatgaa ccacgctacc catccagtcc ttagaagcca 60
 tctaggaccc aacaatgaga gtttctcacg acaccaccta tcttcttcac cacaagcag 120
 taagcgaagg tttaacctta gctttacgcc acgatctgca agggtaggca atgaaaatgg 180
 agtccaattg ttgagcccct cggaaatccc tcgaaggac tggttcccct ctgacttcat 240
 ctttggtgcc gccacttcag cgtaccaaatt tgaagggtgca tggaacgaag a 291

<210> 253
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

<400> 253

gngctacatg aaggagtctg ccaagtgggt ganacagttc aacgccgcga agaagcccag 60
 caagaagatt cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccata 120
 aaaaactggg gtgtgggtttc gaaccgaaaa ttttctgttt ttttccgcca cgagangttc 180
 tggaggcata ctctccagca ccgtggctaa taacgcattg ttccaattca gtctggcctt 240

cgatctgcaa gagtaggcaa tcaaaatgga gtccaattgt tgagcccttc ggaaatccct 240
cgaagggact ggttcccctc cgattcatct ttggtgccgc cacttcag 288

<210> 257
<211> 277
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(277)
<223> unsure at all n locations

<400> 257

gaagaattgg ttgaccttta atgagcccca gacatttact tccttttctt acggaactgg 60
ggtctttgcc ccaggctcgt gctcacctgg actagactgt gcctacccaa ctgggaattc 120
actcgtcgag ccttacactg ctggccataa cattctccta gcccacgctg aggctgttga 180
tctttacaac aagcattaca agcgcgacga caccgcata gggcttgcgt ttgacgtaat 240
gggtcgtgtg ccatacggaa catcgtttct ggncaaa 277

<210> 258
<211> 274
<212> DNA
<213> Zea mays

<400> 258

gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgtgct gccatgaacc 60
acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat gagagtcttct 120
cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaagggtg aaccttagct 180
ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaagtgtg agcccctcgg 240
aaatcccaca aagggactgg ttcccctctg actt 274

<210> 259
<211> 274
<212> DNA
<213> Zea mays

<400> 259

cttataccca gaaggcctaa aggatatcct tatgatcatg aagaacaaat atggaaaccc 60
acctatctac atcactgaga acggaatcgg ggatgttgat acaaaggaga aacctctacc 120

catggaggct gccttaaagt actacaaaag gctagattac atccagcgcc acatctcaac 180
tctcaaggag tcaatagact tgggagcaaa tgtgcatggc tacttcgctt ggtctctgct 240
ggataacttt gaatgggtacg ccggtacac cgaa 274

<210> 260
<211> 293
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(293)
<223> unsure at all n locations

<400> 260

cgggacgtgg ncnanaagct ctagttctag ctagctagca aaggggggga aaatggctcc 60
gcttctcgct gcagcnatga accacgctgc agcccatcct ggccttagga gccacctagt 120
aggacccaac aatgagagtt tctcacggca ccacctgccg tcttcttctc cacagagcag 180
caagcgaagg tgtaacctta gctttactac acgatctgca agagtaggca gccaaaatgg 240
agtccaaatg ttgagcccct cggaaatccc acaaaggagc tggttcccct ctg 293

<210> 261
<211> 279
<212> DNA
<213> Zea mays

<400> 261

cttcgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt tgacctttaa 60
tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc cagggcggtg 120
ctcacctgga ctagactgtg cctacccaac tgggaattca ctgctcgagc cttacactgc 180
tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca agcattacaa 240
gcgcgacgac acccgcatag ggcttgcggt tgacgtaat 279

<210> 262
<211> 274
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(274)
<223> unsure at all n locations

<400> 262
 acggaactgg ggtctttgcc ccaggctcgg gctcacctgg actagactgt gcctacccaa 60
 ctgggaattc actcgtcgag ccttacantg ctggccataa cattctccta gcccacgctg 120
 aggctgttga tctttacaac aagcattaca agcgcgacga caccgcataa gggcttgctg 180
 ttgangtaat gggctcgtgtg ccatacggaa catcgtttct ggataaacag gccgaagaaa 240
 ggtcctggga catcaacctg ggatgggttct taga 274

<210> 263
 <211> 276
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(276)
 <223> unsure at all n locations

<400> 263
 ggcattggacg catatagggt ctctatctct tggcctagaa tactgcctan nggaacgggc 60
 gaaggaggta ttaaccagga tggcatcgat tactacaaaa ggctcatcaa cttgttgcta 120
 gagaatggca tagagccata tgtaacaatt ttccactggg atgtccctca agcactagaa 180
 gagaagtacg gcggattctt agataagact cataagagga ttgtaaatga ttacaaaaac 240
 ttcgctaagg tgtgcttcga caactttggt gacaag 276

<210> 264
 <211> 276
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(276)
 <223> unsure at all n locations

<400> 264
 atgagcccca gacatttact tccttttcct acggaactgg ggtctttgcc ccaggctcgg 60
 gctcacctgg actagactgt gcctacccaa ctngaattc actcgtcgag ccttacactg 120
 ctggccataa cattctccta gcccacgctg aggctgttga tctttacaac aagcattaca 180
 agcgcgacga caccgcataa nggcttgctg ttgacgtaat gggctcgtgtg ccatacggaa 240

catcgtttct ggataaacag gccgaagaaa ggtcct 276

<210> 265
<211> 274
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(274)
<223> unsure at all n locations

<400> 265

ggttctccaa aaacatcgat atctcaccaa actactcacc tgtgctcaac antgacgacg 60
cctacgccag tcaagaagtt aacgggcctg acgggaagcc cattggctct cctatgggaa 120
atccatggat ctacatgtac cctgagggct tgaaggatct ccttatgatc atgaagaaca 180
aatacggaaa cccacctatc tacatcacgg agaacggaat cggggatggt gataccaagg 240
agacacctct acccatggag gatgccttaa atga 274

<210> 266
<211> 280
<212> DNA
<213> Zea mays

<400> 266

gaactgggggt ctttgcccca ggtcgggtgct cacctggact agactgtgcc taccgaactg 60
ggaattcact tcgtcgagcc ttacactgct ggccataaca ttctcctagc ccacgctgag 120
gctgttgatc ttacaacaa gcattacaag cgcgacgaca cccgcatagg gcttgcgttt 180
gacgtaatgg gtcgtgtgcc atacggaaca tcgtttctgg ataaacaggc cgaagaaagg 240
tcctgggaca tcaacctagg atggttctta gagccagtgg 280

<210> 267
<211> 279
<212> DNA
<213> Zea mays

<400> 267

cattgtagaa gattacacat actttgctaa ggtgtgcttt gataacttcg gcgacaagg 60
gaagaattgg ttgaccttta atgagcccca gacatttact tccttttcct acggaactgg 120
ggtctttgcc ccaggtcggg gctcacctgg actagactgt gcctacccaa ctgggaattc 180

actcgtcgag ccttacactg ctggccataa catctcctag cccacgctga ggctgttgat 240
ctttacaaca agcattacaa gcgcgacgac acccgcata 279

<210> 268
<211> 271
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(271)
<223> unsure at all n locations

<400> 268

gntaacgggc ctgacgggaa gccatttggc cctcctatgg gaaatccatg gatctacatg 60
taccctgagg gcttgaagga tctccttatg atcatgaaga acaaatacgg aaaccacact 120
atctacatca cggagaacgg aatcggggat gttgatacca aggagacacc tctacccatg 180
gaggatgcct taaatgacta caaaaggcta gattacatcc agcgccacat cgctactctt 240
aaggaatcaa tagacttggg atcaaattgtg c 271

<210> 269
<211> 291
<212> DNA
<213> Zea mays

<400> 269

ttcggtttca cactttttca gagaagatta cacatacttt gctaagggtg gctttgataa 60
cttcggcgac aagggtgaaga attggttgac ctttaatgag cccagacat ttacttcctt 120
ttcctacgga actgggggtct ttgccccagg tcgggtgctca cctggactag actgtgccta 180
cccaactggg aattcactcg tcgagcctta cactgctggc cataacattc tcctagccca 240
cgctgaggct gttgatcttt acaacaagca ttacaagcgc gacgacaccc g 291

<210> 270
<211> 278
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(278)
<223> unsure at all n locations

<400> 270

gcagctcaaa gctctagttc tagctagcta gcaaangggg ggaaaatggc tccgcttctc 60
gctgctgcca tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
aacaatgaga gtttctcacg gcaccacctg ccgtcttctt ctccacagag cagcaagcga 180
aggtgtaacc ttagctttac tacacgatct gcaagagtag gcagccaaaa tggagtccaa 240
atgttgagcc cctcggaaat ccacaaaagg gactgggtt 278

<210> 271
<211> 312
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(312)
<223> unsure at all n locations

<400> 271

attcgtacca tatgtacaaa acggacgtca gattgctcaa ggaaatgggc atggacgcat 60
aggttctcta tctcttggcc cagaatactg ccgaaggaac caaagaagga ggtattaacc 120
cgnatggcat caagtactac agaaacctca tcaacttggt gctagaaaac ggcatagagc 180
catatgtaac aattttccac tgggatgtac ctcaagcact agaagagaag tacggcggct 240
tcctagataa gagtcataag agcattgtag aagattacac atactttgct aaggtgtgct 300
ttgataactt cg 312

<210> 272
<211> 276
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(276)
<223> unsure at all n locations

<400> 272

gagccccaga catttacttc cttttcctac ggaactgggg tctttgcccc aggtcgggtgc 60
tcacctggac tagactgtgc ctaccaact gggaattcac tcgtcgagcc ttacactgct 120
ggccataaca ttctcctagc ccacgctgag gctgttgatc ttacaacaa gcattacaag 180
cgcgacgaca cccgcatagg gcttgcggtt gacgtaatgg gtcgtgtgcc atacggaaca 240

tcgtttctgga taaacaggcc gaagaaangt cctggg 276

<210> 273
<211> 267
<212> DNA
<213> Zea mays

<400> 273

ggccataaca ttctcctagc ccacgctgag gctgttgatc ttacaacaa gcattacaag 60
cgcgacgaca cccgcatagg gcttgcgttt gacgtaatgg gtcgtgtgcc atacggaaca 120
tcgtttctgga ataaacaggc cgaagaaagg tcctgggaca tcaacctagg atggttctta 180
gagccagtgg ttcgtggtga ctacccttc tccatgagat cattggctag ggaacgacta 240
cccttcttca aggacgagca gaaggag 267

<210> 274
<211> 276
<212> DNA
<213> Zea mays

<400> 274

gccatctagg acccaacaat gagagtcttct cacgacacca cctatcttct tcaccacaaa 60
gcagtaagcg aaggtttaac cttagcttta cgccacgacg tgcaagggtta ggcaatgaaa 120
atggagtcca attgttgagc ccctcggaag tccctcgaag ggactgggttc ccctctgact 180
tcctcttttg tgccgccact tcagcgtacc aaattgaagg tgcattggaac gaagatggaa 240
aggggggaaag caattgggat cacttctgcc acaatt 276

<210> 275
<211> 267
<212> DNA
<213> Zea mays

<400> 275

caaaaacatc gacatctcac caaactactc acctgtgctc aacactgacg acgcctacgc 60
cagtcaagaa gttaacgggc ctgacgggaa gccattgggt cctcctatgg gaaatccatg 120
gatctacatg taccctgagg gcttgaagga tctccttatg ataatagaaga acaataacgg 180
aaacccacct atctacatca ccgagaacgg aatcggggat gttgatacca aagagacacc 240
tctacccatg gaggctgcct taaatga 267

<210> 276
 <211> 271
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

<400> 276

tgctacatga aggagtctgc caagtgggtg anacagttca acgccgcgaa gaagcccagc 60
 aagaagattc ttacgccagc ttagaaatcg ggggcctcat gatgtgggtg cagcccataa 120
 aaaactggtg tgtgggttcg aaccgaaaat tttctgtttt tttccgccac gagangttct 180
 ggaggcatac tctccagcac cgtggctaata aacgcattgt tccaattcag tctggccttg 240
 tcatgcatgc aataaataaa gtgatgggtt t 271

<210> 277
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations

<400> 277

cggnacntgg ngnaagggnag tctgccaaagt gggtgaaaca gttcaacgcc gcgaagaagc 60
 ccagcaagaa gattcttacg ccagcttaga aatcgggggc ctcatgatgt ggggtgcagcc 120
 cataaaaaac tgggtgtgtg tttcgaaccg aaaattttct gtttttttcc gccacgagag 180
 gttctggagg catactctcc agcaccgtgg ctaataacgc attgttccaa ttcagtctgg 240
 ccttgatcatg catgcaataa ataaagtgat gggtttcctt gtttc 285

<210> 278
 <211> 268
 <212> DNA
 <213> Zea mays

<400> 278

cggaaccaca cctatctaca tcacggagaa cggaatcggg gatgttgata ccaaggagac 60
 acctctaccc atggaggatg ccttaaataa ctacaaaagg ctagattaca tccagcgcca 120

catcgctact ctttaaggaat caatagactt gggatcaaata gtgcaaggct acttcgcttg 180
gtctctgctg gacaactttg aatggttcgc cggcttcacc gaacgttatg gcattgtcta 240
cgtcgaccgc aacaataact gcacgcgc 268

<210> 279
<211> 318
<212> DNA
<213> Zea mays

<400> 279

gcagctcaaa gctctagttc tagctagcta gcaaaggggg ggaaaatggc tccgcttctc 60
gctgctgcca tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 120
aacaatgaga gtttctcacg gcaccacctg ccgtcttctt ctccacagag cagcaagcga 180
aggtgtaact tagctttact acacgatctg caagagtagg cagccaaaat ggagtccaaa 240
tggtgagccc ctcggaatac ccacaaaggg actgggtccc tctgacttca ctccggtgcc 300
ggcaacttca gcgtacca 318

<210> 280
<211> 264
<212> DNA
<213> Zea mays

<400> 280

ctctgctgga taactttgaa tggtagcccg gctacaccga acgttatggc attgtctacg 60
tcgaccgcaa aaataactac acgcgctaca tgaaggagtc agccaagtgg ttaaaagagt 120
tcaatactgc gaagaagcct agcaagaaga ttattacgcc agcttaaaaa catgggacct 180
cgtgatgtgg gtacggtgcc acccatgaaa taaaaaccta gtgtgtgggt tgaaacctaa 240
atttttcttt ttcttttttg cacc 264

<210> 281
<211> 264
<212> DNA
<213> Zea mays

<400> 281

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccacccctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180

aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaattgtg 240
agccccctcgg aaatcccaca aagg 264

<210> 282
<211> 265
<212> DNA
<213> Zea mays

<400> 282

gggatgttga taccaaggag acacctctac ccatggagga tgccttaaata gactacaaaa 60
ggctagatta catccagcgc cacatcgcta ctcttaagga atcaatagac ttgggatcaa 120
atgtgcaagg ctacttcgct tgggtctctgc tggacaactt tgaatggttc gccggcttca 180
ccgaacgtta tggcattgtc tacgtcgacc gcaacaataa ctgcacgcgc tacatgaagg 240
agtctgccaa gtggttgaaa cagtt 265

<210> 283
<211> 284
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(284)
<223> unsure at all n locations

<400> 283

tttgccccan gtcggtgctc acctggacta gactgtgnct acccaactgg gaattcactc 60
gtccgagcct tacactgctg gccataacat tctcctagcc cacgctgagg ctgttgatct 120
ttacaacaag cattacaagc gcgacgacac ccgcataggg cttgcgtttg acgtaatggg 180
tcgtgtgcca tacggaacat cgtttctgga taaacaggcc gaagaaangt ctgggacatc 240
aacctaggat ggttcttaga gccagtgggtt cgtggtgact ancc 284

<210> 284
<211> 270
<212> DNA
<213> Zea mays

<400> 284

ataaactact acacctcaat attctccaaa catatcgaca tctcaccaaa atactcgctt 60
gttctcaaca ctgacgacgc ctacgctagt caagaaacgt atgggcctga cgggaaaccc 120

attggtcctc ctatgggaaa tccgtggatc tacttatacc cagaaggcct aaaggatatc 180
 cttatgatca tgaagaacaa atatggaaac ccacctatct acatcactga gaacggatcg 240
 gggatgttga taciaaaggag aaacctctac 270

<210> 285
 <211> 269
 <212> DNA
 <213> Zea mays

<400> 285

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aaggtgtaac cttagcttta ctacacgatc tgcaagagta ggcagccaaa atggagtcca 240
 aatgttgagc ccctcggaaa tcccacaaa 269

<210> 286
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 286

tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc caggtcggta 60
 ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgagc cttacactgc 120
 tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca agcattacaa 180
 gcgcgacgac acccgcatag ggcttgcggt tgacgtaatg ggtcgtgtgc catacggaac 240
 atcgtttctg gataaacagg ccga 264

<210> 287
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 287

gttgggggta aactactaca cctcacgggt ctccaaaaac atcgatatct caccaaacta 60
 ctcacctgtg ctcaacactg acgacgccta cgccagtcaa gaagttaacg ggcctgacgg 120
 gaagcccatt ggtcctccta tgggaaatcc atggatctac atgtaccctg agggcttgaa 180

ggatctcctt atgatcatga agaacaaata cggaaaccca cctatctaca tcacggagaa 240
cggaatcggg gatgttgata cca 263

<210> 288
<211> 274
<212> DNA
<213> Zea mays

<400> 288

atttgtgcag gaatcgggga tgttgatacc aaggagacac ctctacccat ggaggatgcc 60
ttaaagtact ataaaaggct agattacatc cagcgccaca tcgctactct taaggaatca 120
atagacttgg gatcaaagt gcaaggctac ttcgcttggt ctctgctgga caactttgaa 180
tggttcgccc gcttcaccga acgttatggc attgtctacg tcgaccgcaa caataactgc 240
acgcgctaca tgaaggagtc tgccaagtgg ttga 274

<210> 289
<211> 299
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(299)
<223> unsure at all n locations

<400> 289

aaagctctag ttctagctag cnagcaaagg gggggaaaat ggctccgctt ctgcngctg 60
ccatgaacca cgctgcagcc cancctggcc ttaggagcca cctagtagga cccaacaan 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgn 180
aaccnnagcn ttactacacg atcngcaaga gtaggcagcc aaaatggagt tcaaatgttg 240
agcccctcgg aaattccaca aagggactgg tccccctctg acttnacctt cgggtgngg 299

<210> 290
<211> 262
<212> DNA
<213> Zea mays

<400> 290

ctctagctag ctagcagggg gggaaatggc tccacttctc gccgcagcca tgaaccacgc 60
tgcccatcca gtccttagaa gccatctagg acccaacaat gagagtttct cacgacacca 120

cctatcttct tcaccgcaaa gcagtaagcg aagggtttaac cttagcttta cgccacgata 180
 tgcaagagta ggcaatcaaa atggagtcca attgttgagc ccttcggaaa tccctcgaag 240
 ggactgggtc ccctccgact tc 262

<210> 291
 <211> 261
 <212> DNA
 <213> Zea mays

<400> 291

ggaaaatggc tccgcttctc gctgctgcca tgaaccacgc tgcagcccat cctggcctta 60
 ggagccacct agtaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
 ctccacagag cagcaagcga aggtgtaacc ttagctttac tacacgatct gcaagagtag 180
 gcagccaaaa tggagtccaa atgttgagcc cctcggaaat cccacaaagg gactggttcc 240
 cctctgactt caccttcggt g 261

<210> 292
 <211> 424
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(424)
 <223> unsure at all n locations

<400> 292

acagctctag ttctanctan ctancaangg gngggaaaat ggctccgctt ctgctgctg 60
 ccatgaacca cnetgcance catcctggcc ttaggagcca cctagtacga cccaacattg 120
 agagtttctc acggcaccac ctgccgtctt cttctccaca gagcagcatc gcnaagggtg 180
 aaccttagcn ttactacacg atctgcaaga gtaggcagcc aaantggant cnaantgttg 240
 agcccnncng aaatcnaca aagggaacngg tnccctctg acttcacett cgggtgcncgc 300
 cncntcagcg tancanggnt caatgtgctt ggaanganga tggaancggg gaaancgnct 360
 gggatnantt cngcganagt catccggaaa ngatatggac tggancactt cagacattgg 420
 atca 424

<210> 293
 <211> 306
 <212> DNA

<213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

<400> 293

gctagcnagc naagggggggg anaatngctc cgcttctcgc tgctgccatg anccacgctg 60
 cagcccatcc tggccttagg agccacctag taggacccaa caatgagagt ttctcacggc 120
 accacctgcc gtcttcttct ccacagagca gcaagcnaag gtgtaacctt agctttacta 180
 cacgatctgc aagantaggc agccaaaatg gagtccaaat gttgagcncc tcggaaatcc 240
 cacaaagggg ctgggttcnch tctgacttca anttggtggn ggcaattnag gtaacaaatt 300
 gaaggt 306

<210> 294
 <211> 277
 <212> DNA
 <213> Zea mays

<400> 294

gcagctcaaa actctagcta gctaccaggg gggaaaatgg ctccacttct cgccgcagcc 60
 atgaaccacg ctacccatcc agtccttaga agccatctag gacccaacaa tgagagtttc 120
 tcacgacacc acctatcttc ttcaccacaa agcagtaagc gaagggttaa ccttagcttt 180
 acgccacgat ctgcaagggg aggcaatgaa aatggagtcc aattgttgag cccctcggaa 240
 atccctcgaa gggactgggt cccctctgac ttcactt 277

<210> 295
 <211> 260
 <212> DNA
 <213> Zea mays

<400> 295

cgtcaataga cttgggagca aatgtgcatg gctacttcgc ttggtctctg ctggataact 60
 ttgaatggta cgccggctac accgaacgtt atggcattgt ctacgtcgac cgcaaaaata 120
 actacacgcg ctacatgaag gagtcagcca agtgggttaa agagttcaat actgcgaaga 180
 agcctagcaa gaagattatt acgccagctt aaaaacatgg gacctcgtga tgtgggtacg 240
 gtgccaccca tgaaataaat 260

<210> 296
<211> 258
<212> DNA
<213> Zea mays

<400> 296

gccaagtggg tgaacagtt caacgccgcg aagaagccca gcaagaagat tcttacgcca 60
gcttagaaat cgggggcctc atgatgtggg tgcagcccat aaaaaactgg tgtgtgggtt 120
cgaaccgaaa attttctgtt tttttccgcc acgagagggt ctggaggcat actctccagc 180
accgtggcta ataacgcatt gttccaattc agtctggcct tgtcatgcat gcaataaata 240
aagtgatggg tttccctg 258

<210> 297
<211> 266
<212> DNA
<213> Zea mays

<400> 297

agcaattcag acattggagc gaattcgtac catatgtaca aaacggacgt cagattgctc 60
aaggaaatgg gcatggacgc atataggttc tctatctctt ggcccagaat actgccgaag 120
gaaccaaaga aggaggtatt aaccgggatg gcatcaagta ctacagaaac ctcatcaact 180
tgttgctaga aaacggcata gagccatatg taacaatttc cactgggatg tacctcaagc 240
actagaagag aagtacggcg gcttcc 266

<210> 298
<211> 270
<212> DNA
<213> Zea mays

<400> 298

tacaagcgcg acgacacccg catagggctt gcgtttgacg taatgggtcg tgtgccatac 60
ggaacatccg tttctggata aacaggccga agaaagggtca tgggacatca acctaggatg 120
gttcttagag ccagtgggtc gtggtgacta ccccttctcc atgagatcat tggctaggga 180
acgactaccc ttcttcaagg acgagcagaa ggagaagctc gccggttcct ataacatggt 240
ggggttaaac tactacacct cacggttctc 270

<210> 299
<211> 287

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<212>      DNA
<213>      Zea mays

<220>
<221>      unsure
<222>      (1)...(287)
<223>      unsure at all n locations

<400>      299

attacaccta cttcgctaag gtgtgctttg ataacttcgg cgacaaggtg aagaattggt   60
tgacctttta tgagccccag acatttactt ccttttccta cggaactggg gtctttgccc  120
cagggcggtg ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgtcgagc  180
cttacactgc tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca  240
agcatacaag gcgacgacac ccgcatangg ctgcgttgac gtatggg                    287

<210>      300
<211>      252
<212>      DNA
<213>      Zea mays

<400>      300

cttatgatca tgaagaacaa atacggaaac ccacctatct acatcacgga gaacggaatc   60
ggggatgttg ataccaagga gacacctcta cccatggagg atgccttaaa tgactacaaa  120
aggctagatt acatccagcg ccacatcgct actcttaagg aatcaataga cttgggatca  180
aatgtgcaag gctacttcgc ttggtctctg ctggacaact ttgaatgggt cgccggcttc  240
accgaacggt at                                     252

<210>      301
<211>      256
<212>      DNA
<213>      Zea mays

<400>      301

cttctccatg agatcattgg ctagggaacg actacccttc ttcaaggacg agcagaagga   60
gaagctcgcc ggttcctata acatgttggg gttaaactac tacacctcac ggttctccaa  120
aaacatcgac atctcaccaa actactcacc tgtgctcaac actgacgacg cctacgccag  180
tcaagaagtt aacgggcctg acaggaagcc cattggctct cctatgggaa atccatggat  240
ctacatgtac cctgag                                     256

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<210> 302
 <211> 255
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

<400> 302

tcaacttggt gctagaaaac ggcataagac catatgtaac aatttnccac tgggatgtac 60
 ctcaagcact agaagagaag tacggcggct tcctagataa gagtcataag agcattgtag 120
 aagattacac atactttgct aagggtgtgct ttgataactt cggcgacaag gtgaagaatt 180
 ggttgacctt taatgagccc cagacattta cttccttttc ctacggaact ggggtctttg 240
 cccaggtcg gtgct 255

<210> 303
 <211> 264
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

<400> 303

cggacgctgg tgnactacaa aaggctagat tacatccagc gccacatcg tactcttaag 60
 gaancaatag acttgggatc aaatgtgcaa ggctacttcg cttggtctct gctggacaac 120
 tttgaatggt tcgccggctt caccgaacgt tatggcattg tctacgtcga ccgcaacaat 180
 aactgcacgc gctacatgaa ggagtctgcc aagtgggtga aacagttcaa cgccgcgaag 240
 aagcccagca agaagattct tacg 264

<210> 304
 <211> 252
 <212> DNA
 <213> Zea mays

<400> 304

attacacata ctttgctaag gtgtgctttg ataacttcgg cgacaagggtg aagaattggt 60
 tgacctttaa tgagccccag acatttactt ccttttcta cggaactggg gtctttgccc 120

caggctcgggtg ctcacctgga ctagactgtg cctacccaac tgggaattca ctcgctcgagc 180
 cttacactgc tggccataac attctcctag cccacgctga ggctgttgat ctttacaaca 240
 agcattacaa gg 252

<210> 305
 <211> 279
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(279)
 <223> unsure at all n locations

<400> 305

ctcnnogagc cttacacngc tggccataan attctcctag cccangnnga ngnggttgat 60
 ctttacaaca agcatnanaa ncgcgacgac acncgnatag ggcttgcggtt tgacgtaatg 120
 ggctcgtgtgc catanggaac atcgtttctg gataaacagg cngaagaaag gtcntgggac 180
 atcaacctag gatggttctt agagncagtg gttcgtgggtg actanccctt ctccatgaga 240
 tcattgggcta gggaacgact acccttcttc aaggacgag 279

<210> 306
 <211> 251
 <212> DNA
 <213> Zea mays

<400> 306

caaagaagga ggtattaacc cggatggcat caagtactac agaaacctca tcaacttggt 60
 gctagaaaac ggcatagagc catatgtaac aattttccac tgggatgtac ctcaagcact 120
 agaagagaag tacggcggct tcctagataa gagtcataag agcattgtag aagattacac 180
 atactttgct aagggtgtgct ttgataactt cggcgacaag gtgaagaatt gggtgacctt 240
 taatgagccc c 251

<210> 307
 <211> 254
 <212> DNA
 <213> Zea mays

<400> 307

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60

agagcaagag aagctagtgg gttcctatga catgttgggg ttaaactatt atacctcaag 240
gttctctaaa aacatcgata tctcaccaaa ctactcgcca gtgctcaaca ctgacgacgc 300
atatgccagt caagaaacga atgggcctga cg 332

<210> 313
<211> 258
<212> DNA
<213> Zea mays

<400> 313

gttgcgctgt gtgttatatt ttatgaaata aaaatctaga tggttgtgtt tatgatagat 60
gttactatac ggtcgcaatt gccgtcaatt caatttttat ttgtgcagga atcggggatg 120
ttgataccaa ggagacacct ctacccatgg aggatgcctt aaatgactac aaaaggctag 180
attacatcca gcgccacatc gctactctta aggaatcaat agacttggga tcaaattgtgc 240
aaggctactt cgcttggt 258

<210> 314
<211> 244
<212> DNA
<213> Zea mays

<400> 314

caacttgttg ctagaaaacg gcatagagcc atatgtaaca attttccact gggatgtacc 60
tcaagcacta gaagagaagt acggcggctt cctagataag agtcataaga gcattgtaga 120
agattacaca tactttgcta aggtgtgctt tgataacttc ggcgacaagg tgaagaattg 180
gttgaccttt aatgagcccc agacatttac ttccctttcc tacggaactg gggctctttgc 240
ccca 244

<210> 315
<211> 259
<212> DNA
<213> Zea mays

<400> 315

togagcttta cactgctggc cataacattc tcctagccca cgctgagget gttgatcttt 60
acaacaagca ttaacaagcg gcgacgacac ccgcataggg cttgcgtttg acgtaatggg 120
tcgtgtgcca tacggaacat cgtttctgga taaacaggcc gaagaaaggt catgggacat 180
caacctagga tggttcttag agccagtggg tcgtggtgac tacccttctt ccatgagatc 240

attgggctagg gaacgacta 259

<210> 316
<211> 239
<212> DNA
<213> Zea mays

<400> 316

gtgtaacctt agctttacta cacgatctgc aagagtaggc agccaaaatg gagtccaaat 60
gttgagcccc tcggaaatcc cacaaaggga ctggttcccc tctgacttca ccttcggtgc 120
cgccacttca gcgtaccaa ttgaagggtgc ttggaatgaa gatggaaagg gggaaagcaa 180
ctgggatcac ttctgccaca atcatccgga aaggatactg gacgggagca attcagaca 239

<210> 317
<211> 253
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(253)
<223> unsure at all n locations

<400> 317

ggttaaacta cnacacctca cggttctcca nnancatcga tntctcacca aacnactcac 60
ctgtgctcaa cactgacgac gcctacgcca gtcaagaagt taacgggcct gacgggaagc 120
ccnttggtcc tcctatggga aatccatgga tctacatgta ccctgagggc ttgaaggatc 180
tccttatgat catgaagaac aaatacggaa acccacctat ctacatcacg gngancggaa 240
tcggggntgt tga 253

<210> 318
<211> 241
<212> DNA
<213> Zea mays

<400> 318

caaattgaag gtgcttgga tgaagatgga aagggggaaa gcaactggga tcacttctgc 60
cacaatcatc cggaaaggat actggacggg agcaattcag acattggagc gaattcgtac 120
catatgtaca aaacggacgt cagattgctc aaggaaatgg gcatggacgc atataggttc 180
tctatctctt ggcccagaat actgccgaag gaaccaaaga aggaggtatt aaccggatg 240

g 241

<210> 319
<211> 242
<212> DNA
<213> Zea mays

<400> 319

agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
caacaatgag agttttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
aaggtgtaac cttagcttta ctacacgata tgcaagagta ggcagccaaa atggagtcca 240
aa 242

<210> 320
<211> 236
<212> DNA
<213> Zea mays

<400> 320

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
gccatgaacc acgctgcagc ccatacctggc cttaggagcc acctagtagg acccaacaat 120
gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180
aaccttagct ttactacacg atctgcaaga gtaggcagcc aaaatggagt ccaaat 236

<210> 321
<211> 241
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(241)
<223> unsure at all n locations

<400> 321

cttnaatgac tacaaaaggc tagattacat ccagcgccac atcgctactc ttaaggaatc 60
aatagacttg ggatcaaagt tgcaaggcta cttcgcttgg actctgctgg acaactttga 120
atggattgcc ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg 180
cacgcgctac atgaaggagt ctgccaaagt gttgaaagag ttcaacaccg cgaaaaagcc 240

c 241

<210> 322
<211> 341
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(341)
<223> unsure at all n locations

<400> 322

gccgcnggga accaccagaa ggaggtatta acccggatgg catcaagtac tacagaaacc 60
tcatcaactt gttgctagaa aacggcatag agccatatgt aacaattttc cactgggatg 120
tacctcaagc actagaagag aagtacggcg gcttcctaga taagagtcac aagagcattg 180
tagaaattac acatactttg ctaaggtgtg ctttgataac ttcggcgaca aggtgaagat 240
tggttgacct ttaatgagcc ccagacttta cttccttttc ctacggaatg gggctctttgc 300
cccagtcggg gctcactgga tagatgtgcc taccactgg g 341

<210> 323
<211> 269
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(269)
<223> unsure at all n locations

<400> 323

caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctcngnt tctncgctgc 60
tgccatgaac cacgctgcag cccatcctgg ccttaggagc nacctagtag gncccaacaa 120
tgagagtttc tcacggcacc acctgcngtc ttcttctcca cagagcagca agcnaagggtg 180
taaccttcgc ttactacac natctgcaag agtaggcagc caaaatggag tcnaaatntt 240
ganccctcgc gaaatcccac aaagggant 269

<210> 324
<211> 316
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(316)
 <223> unsure at all n locations
 <400> 324

gacatttacn tccttttctt acggncctggg gtctttgccc caggtcgggtg ctcacctgga 60
 ctagactgtg cctacccaac tnggaattna ctctgcgagc cttanactgc tggccataac 120
 atnctcctag cccacgctga ggctgttgat ctttacaaca agcattacaa gcgcgacgac 180
 acncgcntag ggcttgcggt tnacgtnatg ggctgtgtgc catacggnac atcgtttctg 240
 ganaacaggg cgnagaaagt cctgggacat caancnatna tggntctaga ccagtngtcg 300
 ggtgactacc cctctc 316

<210> 325
 <211> 277
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations
 <400> 325

caaagctcta gttctagcta nctagcaaan nggggganaa tggctccgct tttcgctgcn 60
 gccatgaacc acgctgcagc ccctcctggc cttaggagcc ncctagtagg acccaacgat 120
 gagagntntc acggcaccan ctgccgtctt cttctccaca gagcagcaan cgaaggtgta 180
 acnttagctt tactacacga tntgcaagag taggcagcca aaatggagtc cnatgttga 240
 gcccctcgga aatcccgcaa agggantggg tcccctc 277

<210> 326
 <211> 247
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations
 <400> 326

ancagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60

cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtaggacc 120
 caacaatgag agtttctcac ggcaccacct gccgtcttct tctccacaga gcagcaagcg 180
 aaggtgtaac ttagctttac tacacgatct gcaagagtag gcagccaaaa tggagtccaa 240
 atgttga 247

<210> 327
 <211> 252
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations

<400> 327

agacattgga gcgaattcgt accatatgta caaaacggat gtcagattgc tgaaggaaat 60
 gggcatggac gcatataggt tctctatctc ttggcctaga atactgccta nnggaacggg 120
 cgaaaggggt attaaccagg atggcatcna ttactacana aggctcatcn acttgntgct 180
 agaggatggc ntagangcat atgnaacnat tttccactgg gatgtccctc aagcactaga 240
 agagaagtac gg 252

<210> 328
 <211> 231
 <212> DNA
 <213> Zea mays

<400> 328

ctgggaattc actcgtcgag ccttacactg ctggccataa cattctccta gccacgctg 60
 aggctgttga tctttacaac aagcattaca agcgcgacga caccgcata gggcttgctg 120
 ttgacgtaat gggtcgtgtg ccatacggaa catcgtttct ggataaacag gccgaagaaa 180
 ggtcatggga catcaaccta ggatgggttct tagagccagt ggttcgtggt g 231

<210> 329
 <211> 237
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(237)
 <223> unsure at all n locations

<210> 335
 <211> 241
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(241)
 <223> unsure at all n locations

<400> 335

ttcggtngcc gccacttcag cgtaccaa at tgaaggtgct tggaatgang atngaaaggg 60
 ggaaagcaac tgggatcact tctgccacaa tcatccggaa aggatactgg acgggagcaa 120
 ttcagacatt ggagcgaatt cgtaccatat gtacaaaacg gacgtcagat tgctcaagga 180
 aatgggcatg gacgcatata ggttctctan ctcttggccc agaatactgc cgaaggaacc 240
 a 241

<210> 336
 <211> 240
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(240)
 <223> unsure at all n locations

<400> 336

ggacaacttt gaatgggttcg ccggcttcac cgaacgttat ggcnttgtct acgtcgaccg 60
 caacaataac tgcacgcgct acatgaagga gtctgccaaag tgggtgaaac agttcaacgc 120
 cgcgaagaag cccagcaaga ngattcttnn gccagcttng aaatcggggg cctcatgatg 180
 tgggtgcagc ccataaaaaa ctgggtgtgtg gtctcgaann gaaaatttgc tgtttttncg 240

<210> 337
 <211> 226
 <212> DNA
 <213> Zea mays

<400> 337

cgctactctt aaggaatcaa tagacttggg atcaa atgtg caaggctact tcgcttggtc 60
 tctgctggac aactttgaat ggttcgccgg cttcaccgaa cgttatggca ttgtctacgt 120

cgaccgcaac aataactgca cgcgctacat gaaggagtct gccaaagtgg tgaacagtt 180
caacgccgcg aagaagccca gcaagaagat tcttacgcca gcttag 226

<210> 338
<211> 227
<212> DNA
<213> Zea mays

<400> 338

cacccgcata gggcttgctg ttgacgtaat gggtcgtgtg ccatacggaa catcgtttct 60
ggataaacag gccgaagaaa ggtcctggga catcaaccta ggatggttct tagagccagt 120
ggttcgtggg gactaccctt tctccatgag atcattggct aggaacgac tacccttctt 180
caaggacgag cagaaggaga agctcgccgg ttcctataac atgttgg 227

<210> 339
<211> 229
<212> DNA
<213> Zea mays

<400> 339

gtaccatatg tacaaaacgg acgtcagatt gctcaaggaa atgggcatgg acgcatatag 60
gttctctatc tcttggccca gaatactgcc gaaggaacca aagaaggagg tattaacccg 120
gatggcatca agtactacag aaacctcatc aacttggtgc tagaaaacgg catagagcca 180
tatgtaacaa ttttccactg ggatgtacct caagcactag aagagaagt 229

<210> 340
<211> 266
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations

<400> 340

ggaaaatggc tccgcttctc gctgctgcca tgaaccacnc tgcagcccat cctggcctta 60
ggagccacct agtaggaccc aacaatgaga gtttctcacg gcaccacctg ccgtcttctt 120
ctccacagag cagacaagcg aaggtgtaac ttagctttac tacacgatct gcaagagtag 180
gcagccaaaa tggagtccaa atgttgagcc cctcggaat cccacaaagg gatgggttcta 240

tctgacttca ccttcggtgc cgccac 266

<210> 341
<211> 223
<212> DNA
<213> Zea mays

<400> 341

ccagacattt acttcctttt cctacggaac tggggtcttt gccccagggtc ggtgctcacc 60
tggactagac tgtgcctacc caactgggaa ttcactcgtc gagccttaca ctgctggcca 120
taacattctc ctagccacg ctgaggctgt tgatctttac aacaagcatt acaagcgcca 180
cgacacccgc atagggttg cgtttgacgt aatgggtcgt gtg 223

<210> 342
<211> 262
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(262)
<223> unsure at all n locations

<400> 342

gcccagcaag aagattctta cgccagctta gaaatcngcg gcctcatgat gtgggtgcag 60
cccataaaaa actggtgtgt ggtttcgaac cgaaaatttt ctgttttttt ccgccacgag 120
aggttctgga ggcatanctt ccagcacctg ggctaataac gcattgttcc aattcngtct 180
ggccttgtca tgcattgcaat aaataaagt atgggtttcc ctgtttcaaa nannannna 240
aagnganga ggagngcgn gg 262

<210> 343
<211> 224
<212> DNA
<213> Zea mays

<400> 343

acttcggcga caaggtgaag aattggttga cctttaatga gccccagaca tttacttcct 60
tttcctacgg aactgggggtc tttgccccag gtcgggtgctc acctggacta gactgtgcct 120
acccaactgg gaattcactc gtcgagcctt aactgctgg ccataacatt ctccctagccc 180
acgctgaggc tgttgatctt tacaacaagc attacaagcg cgac 224

<210> 344
 <211> 324
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(324)
 <223> unsure at all n locations

<400> 344

gtcctcctgt atgtatatct ttgatttttt ttattgtaat atgcatattg gtaactagtg 60
 aataatatatt actacactaa tttgcagatg ggaaatccat ggatctacat gtaccctgag 120
 ggcttgaagg atctccttat gatcatgaag aacaaatagc gaaaccacc tatctacatc 180
 acggagaacg gaatcgggga tgttgatacc aaggagacac ctctacccat ggaggatgcc 240
 ttaaatagact acaaaaggct agattacatc cagcgccaca tcgctactct taaggnatcc 300
 atagacttgg gtcaaattgtg caag 324

<210> 345
 <211> 308
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(308)
 <223> unsure at all n locations

<400> 345

ggtcgtgtcc catacgaaaa gtcggcggtt acggatcaac aggccgaaca aaggctcctgg 60
 gacattaacc taggatgggt cttgganccg gttgttcgtg gtgactatcc cttctccatg 120
 agatcattgg caagggaacg actacccttc ttactgaca aagagcaaga gaagctagtg 180
 ggctcctatg acatgttggg gttaaactat tatacctcaa ggcttctctaa aaacatcgat 240
 atctcaccaa actactcgcc agtgctcaac actgacgacg catatgccag tcaagaaacg 300
 aatgggct 308

<210> 346
 <211> 290
 <212> DNA
 <213> Zea mays

<400> 346

atcccttctc catgagatca ttggcaaggg aacgactacc cttcttcact gacaaagagc 60
aagagaagct agtgggttcc tatgacatgt tgggggttaa ctattatacc tcaaggttct 120
ctaaaaacat cgatatctca ccaaactact cgccagtgtc caaactgac gacgcatatg 180
ccagtcaaga aacgaatggg cctgacggga atcccattgg tccttgatg gggaattcgt 240
ggatctacct atatcctgaa ggcctaaagg atctgcttat gatcatgaag 290

<210> 347
<211> 341
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(341)
<223> unsure at all n locations

<400> 347

cgaaggtgta accttagctt tactacacga tctgcaagag taggcagcca aaatggagtc 60
caaagtgtga gcccctcgga atcccacaaa gggactgggt cccctctgac ttcaccttcg 120
gtgccgccat tcagcgtacc aaattgaagg tgcttggaat gaagatggaa agggggaaag 180
caactgggat cattctgcca caatcatccg gaaaggatat ggacnggnnn nantcagaca 240
ttggagcgaa ttcgtaccat atgtacanaa cggacgtnag attgctcagg aaatgggcat 300
ggacgcatat angttctctn tntctgggcc cagatnctgc c 341

<210> 348
<211> 286
<212> DNA
<213> Zea mays

<400> 348

gacgcatagg gcttgcattt gacgtaatgg gtcgtgtccc atacgaaaag tcggcgttta 60
cggatcaaca ggccgaacaa aggtcctggg acattaacct aggatgggtc ttggagccgg 120
ttgttcgtgg tgactatccc ttctccatga gatcattggc aagggaacga ctacccttct 180
tactgacaa agagcaagag aagctagtgg gttcctatga catgttgggg ttaaactatt 240
atacctcaag gttctctaaa aacatcgata tctcaccaaa ctactc 286

<210> 349
<211> 220

gaatcaatag acttggggat caaatgtgca aggctacttc gcttgggtctc tgctggacaa 60
 ctttgaatgg ttccgccggt tcaccgaacg ttatggcatt gtctacgtcg accgcaacaa 120
 taactgcacg cgctacatga aggagtctgc caagtggttg aaacagttca acgccgcgaa 180
 gaagcccagc aagaagattc ttacgccagc ttagaaatcg ggg 223

<210> 355
 <211> 217
 <212> DNA
 <213> Zea mays

<400> 355

gcagctcaaa gctctagttc tagctagcta gcaaaggggg ggaaaatggc tccgcttctc 60
 gctgctgcca tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggacct 120
 aacaatgaga gtttctcacg gcaccacctg ccgtcttctt ctccacagag cagcaagcga 180
 aggtgtaacc ttagctttac tacacgatct gcaagag 217

<210> 356
 <211> 214
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(214)
 <223> unsure at all n locations

<400> 356

acctgagggc ttgaaggatc tccttatgat catgaagaac aaatacggaa acccacctat 60
 ctacatcacg gagaacggaa tcggggatgt tgataccaag gagacacctc taccatgga 120
 ggatgcctta aatgactaca aaaggctaga ttacatccag cgccacatcg ctactcttaa 180
 ggnatcaata gacttgggat caaatgtgca aggc 214

<210> 357
 <211> 223
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 357
 caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatectggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctncac agaggaacaa gcgaaagtgt 180
 accttagctt tactacacga tctgcaagag taggcagcca aaa 223

<210> 358
 <211> 251
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(251)
 <223> unsure at all n locations

<400> 358
 cttaaagac tacaaaaggc tagattacat ccagcgccac atcgctactc ttaaggaatc 60
 aatagacttg ggatcaaagt tgcaaggcta cttcgcttgg actctgctgg acaactttga 120
 atggattgcc ggcttcaccg aacgttatgg cattgtctac gtcgaccgca acaataactg 180
 cacgcgctca tgaaggagtc tgccaagtgg ttgnaagagt caacaccggn gaaaaagccc 240
 acaagaagat t 251

<210> 359
 <211> 268
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(268)
 <223> unsure at all n locations

<400> 359
 cttacgccag cttagaaatc gggggcctca tgatgtgggt gcagcccata aaaaactggn 60
 gtgtgggttc gaaccgaaaa ttttctgttt ttttccgcca cgagangttc tggaggcata 120
 ctctccagca ccgtggctaa taacgcattg ttccaattca gtctggcctt gtcattcatg 180
 caataaataa agtgatgggt ttccctgtta nanaaacnnn ngnnagtcaa gncntgacg 240
 aaantggcat cgatancanc tcgngngcg 268

<210> 360
 <211> 286
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

<400> 360

gaaaggatcat gggacatcaa cctaggatgg ttcttagagc cagtgggttcg tgggtgactac 60
 cccttctcca tgagatgcat tggctaggga acgactaccc ttcttcaagg acgagcagaa 120
 ggagaagctc gccggttcct ataacatgtt ggggttaaac tactacacct gcacgggttct 180
 ccaaaaacat cgacatctgc accaaactan tgcacctgtg ctcaacatga cgacgcctac 240
 gccatcaaga agttaacggg ctgacgggaa gcccatgtgt ctctat 286

<210> 361
 <211> 337
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(337)
 <223> unsure at all n locations

<400> 361

gggaacgact acgcttnttc aaggacgagc aganggagaa gctcgcnggt tcctataana 60
 tggtgggggt aaactactac acctnacggt tntccanaaa catcgactcn cnaccaaact 120
 actcacacnt gctcaacact gacgacgcta cgcnagtnaa gaagttaacg ggccctgacgg 180
 gagcenttgg tcctcctatg ggntctccat ggatctacat gtaccctgag ggcttggtng 240
 gatctcttat gatcatgaag aacaaatacg gaaacccacn tatctanatn aggagangga 300
 atcggggatg ttgataccan gagacactct acccatg 337

<210> 362
 <211> 312
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(312)
 <223> unsure at all n locations

<210> 372
 <211> 328
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(328)
 <223> unsure at all n locations

<400> 372

attggaaact cgctcactga gccatacact gttggccata accttctccg agcccacgct 60
 gaggctgttg atctttacaa caagtattac aaggggtgaga atggacgcat agggcttgca 120
 tttgacgtaa tgggtcgtgt cccatacgaa aagtcggcgt ttacggatca acaggccgaa 180
 caaaggctcct gggacattaa cctaggatgg ttcttggagc cggttgttcg tgggtgactat 240
 ccctctccat gagatcatgg caaggaacga ctacccttct tcatgacaaa gagcaagaga 300
 agctatgggt tctatgacng ttgggtta 328

<210> 373
 <211> 239
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(239)
 <223> unsure at all n locations

<400> 373

gaaaggctcct gggacatcaa ccanggatgg ttcttangag ccagtgggtan cgtgggtgact 60
 aacccttctc catgagatca ttggctaggg aacgactacc cttcttcaag gacgagcaga 120
 aggagaagct cgccgggttc tataacatgt tgggggttaaa ctactacacc tcacgggttct 180
 ccaaaaacat cgatatctca ccaaactact cacctgtgtc acatgangac gcctagcca 239

<210> 374
 <211> 212
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(212)
 <223> unsure at all n locations

<400> 374
 agcagctcaa agctctagtt ctagctagct agcaaagggg gggaaaatgg ctccgcttct 60
 cgctgctgcc atgaaccacg ctgcagccca tcctggcctt aggagccacc tagtangacc 120
 caacaatgag agtttctcac ggcaccacct gcngtcttct tctncacaga gcggcaagcg 180
 aaggngtaac ctgagcttta ctanangttt gc 212

<210> 375
 <211> 221
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(221)
 <223> unsure at all n locations

<400> 375
 caagantagg cagccaaaat ggagtccaaa tgttgagccc ctcggaatc ccacaaaggg 60
 actggttccc ctctgacttc accttcggtg ccgccacttc agcgtaccaa attgaagggtg 120
 cttggaatga agatggaaag ggggaaagca actgggatca cttctgcnac aatcatccgg 180
 aaaggatctg gnnngggagca ttccagacat gggncgattt c 221

<210> 376
 <211> 212
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(212)
 <223> unsure at all n locations

<400> 376
 ctagctagct agcagggggg gaaatggctc cacttctcgc cgcagccatg aaccacgctg 60
 ctcatccagt ccttagaagc catctaggan ccaacaatga gagtttctca cgacaccacc 120
 tatnttcttc accgcaaagc agtaagcgaa ggtttaacct tagctttacg ccagatctgc 180
 aaagnaggca atcaaaatgg agtccattgt tg 212

<210> 377
 <211> 180
 <212> DNA
 <213> Zea mays

<400> 377
 caaagctcta gttctagcta gctagcaaag ggggggaaaa tggctccgct tctcgctgct 60
 gccatgaacc acgctgcagc ccatcctggc cttaggagcc acctagtagg acccaacaat 120
 gagagtttct cacggcacca cctgccgtct tcttctccac agagcagcaa gcgaaggtgt 180

<210> 378
 <211> 266
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 378
 aatcaataga cttgggatca aatgtgcaag gtacttcgct tgggctctgc tggacaactt 60
 tgaatgggtc gccgcttcac cgaacgttat ggcattgcta cgcgaccgca acantaactg 120
 cacgcgctca tgaaggagct gcaagtgggt gaaacagttc aacgccgcga agaaccacaca 180
 agaagattct tacgccagct tagaaatcgg gggcctcatg atgtgggtgc agnccataaa 240
 aactggnggt ggttcgaacc gaaatt 266

<210> 379
 <211> 274
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 379
 catcgtttct ggataaacag gccgaagaaa ggtcctggga catcaaccta ggatggttct 60
 tagagccagt ggttcgtggt gactaccctt tctccangag ntnagtggct agggganggg 120
 gganncnctg cncttgggtg ttatgnnggg gnaagnnngn gggggncctn aaaaaattng 180
 gggtnaactt gacaccctca cggntctcca aaaacatcga tatctcacca aactactcac 240
 ctgtgctcaa cactgacgac gcctacgcca gtca 274

<210> 380

<211> 209
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(209)
<223> unsure at all n locations

<400> 380

cgccaattc natttttatt tgtgcaggaa tcggggatgt tganaccaag gagacacctc 60
taccatgga ggatgcctta nntgactaca anaggctaga ttacatccag cgccacatcg 120
ctactcttaa ggaatcaata gacttgggat caaatgtggc aatgctactt cgcttggtct 180
ctgctggaca actttgaatg gttcgccgg 209

<210> 381
<211> 183
<212> DNA
<213> Zea mays

<400> 381

ggtgcttgga atgaagatgg aaagggggaa agcaactggg atcacttctg ccacaatcat 60
ccggaaagga tactggacgg gagcaattca gacattggag cgaattcgta ccatatgtac 120
aaaacggacg tcagattgct caaggaaatg ggcattggacg catatagttc tctatctctt 180
ggc 183

<210> 382
<211> 238
<212> DNA
<213> Zea mays

<400> 382

gggtgagaat ggacgcatag ggcttgcatt tgacgtaatg ggtcgtgtcc catacgaaaa 60
gtcggcgttt acggatcaac aggccgaaca aaggtcctgg gacattaacc taggatgggt 120
cttgagccg gttgttcgtg gtgactatcc cttctccatg agatcattgg caagggaacg 180
actacccttc ttactgaca aagagcaaga gaagctagtg ggctcctatg acatgttg 238

<210> 383
<211> 167
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(167)
 <223> unsure at all n locations

<400> 383

caattttcca ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcctagata 60
 agagtcataa gagcattgta gaagattaca catactttgc taagggtgtgc tttgataact 120
 tcggcgacaa ggtgaagaat tggttgacct ttaatgagcc cnagact 167

<210> 384
 <211> 210
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(210)
 <223> unsure at all n locations

<400> 384

canaactact cacctgtgct caaactgac gacgcctacg ccagtcaaga aantaacggg 60
 cctgacggga agccattgg tcctcctatg ggaaatccat ggatctacat gtaccctgag 120
 ggcttgaagg atctccttat gatcatgaag aacanatang ganncccant tatntggtna 180
 cggaanccg nngttggata gngnncccc 210

<210> 385
 <211> 360
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(360)
 <223> unsure at all n locations

<400> 385

cagaaacctc atcaacntgn tgctaganaa cgggcataga gccatatgta acaattttcc 60
 actgggatgt acctcncagc actagaagag aagtacggcg gcttccctag ataagagtca 120
 tangagnagt gtagangatt anacatactt gtgctnaggt gtgttggnat aactcncgnc 180
 gnacataggt gaaagaattg agtaganctg antgagcncc cagacantta anttcgnntn 240
 tccnaacngg aactgtnggn cttgtgcnc caggtcgggtg ctcanctggg actagactgt 300

gcctacccca actgggnntt cactcgtcga gcctnncaact gctggcnata acattctcct 360

<210> 386
<211> 150
<212> DNA
<213> Zea mays

<400> 386

gccccaggtc ggtgctcacc tggactagac tgtgcctacc caactgggaa ttcactcgtc 60

gagccttaca ctgctggcca taacattctc ctagccacag ctgaggctgt tgatctttac 120

aacaagcatt acaagcgcga cgacaccgcg 150

<210> 387
<211> 164
<212> DNA
<213> Zea mays

<400> 387

ggttctccaa aaacatcgat atctcaccaa actactcacc tgtgctcaac actgacgacg 60

ctacgccagt caagaagtta acgggcctga cgggaagccc attggtcctc ctatgggaaa 120

tccatggatc tacatgtacc ctgaagggtt gaaagatctc ctat 164

<210> 388
<211> 148
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(148)
<223> unsure at all n locations

<400> 388

ctctagttct agctagctag caaagggggn gaaaatggct ccgcttctcg ctgctgcnat 60

gaaccacgct gcagcccatc ctggccttag gagccaccta gtaggacca acaatgagag 120

tttctcacgg caccacctgc cgtcttct 148

<210> 389
<211> 219
<212> DNA
<213> Zea mays

<400> 389

aaatgtgcta acccaattgg aaactcgctc actgagccat acactggttg ccataacctt 60
ctccgagccc acgctgaggg tgttgatctt tacaacaagt attacaaggg tgagaatgga 120
cgcatagggc ttgcatttga cgtaatgggt cgtgtcccat acgaaaagtc ggcgtttacg 180
gatcaacagg ccgaacaaag gtcctgggac attaaccta 219

<210> 390
<211> 160
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(160)
<223> unsure at all n locations

<400> 390

gattacacat actttgctaa ggtgtgcttt gataacttcg gcgacaaggt gaagaattgg 60
ttgaccttta atgagcccca gacattactt ccttttccta cggaactggg gtcttttccc 120
cangtcggng ctcantggac tagactgtgc ctacccannt 160

<210> 391
<211> 139
<212> DNA
<213> Zea mays

<400> 391

caacactgac gacgcctacg ccagtcaaga agttaacggg cctgacggga agccattgg 60
tcctcctatg ggaaatccat ggatctacat gtaccctgag ggcttgaagg atctccttat 120
gatcatgaag aacaaatag 139

<210> 392
<211> 150
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(150)
<223> unsure at all n locations

<400> 392

gctcctagcc cacgctgagg ctgttgatct ttacaacaag cattacaagc gcgacgacac 60
nncgcatagg gcttgcgttt gacgtaatgg gtcgtgtgcc atacggaaca tcgtttctgg 120

ataaacaggc cgaagaaagg tcctgggatt 150

<210> 393
 <211> 175
 <212> DNA
 <213> Zea mays

<400> 393

tggacagtga gggcttgcac ttgacgtaac gggcgtgtc ccatacgaac agtcggcggt 60

tacggatcaa caggccgaac aaaggcctg ggacattaac ctaggatggg tcttgagacc 120

ggttgttcgt ggtgactatc ccttctccat gagatcattg gcaaggggaa gacta 175

<210> 394
 <211> 133
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(133)
 <223> unsure at all n locations

<400> 394

cggatgtcag attgctgaag gaaatgggca tggacgcata taggttctct atctcttggc 60

cnanaatact gcctaaggna acggtcgaag gaggtattaa ccaggatggc atcgattact 120

acaaaaggct cat 133

<210> 395
 <211> 129
 <212> DNA
 <213> Zea mays

<400> 395

cagaaacctc atcaacttgt tgctagaaaa cggcatagag ccatatgtaa caattttcca 60

ctgggatgta cctcaagcac tagaagagaa gtacggcggc ttcttagata agagtcataa 120

gagcattgt 129

<210> 396
 <211> 127
 <212> DNA
 <213> Zea mays

<220>

<221> unsure
 <222> (1)...(127)
 <223> unsure at all n locations

<400> 396

gggataaaca ggccgaagaa aggtcctggg acatcaacct aggatgggttc ntagagccag 60
 tggttcgtgg tgactacccc ttctccatga gatcattggc tagggaacga ctacccttct 120
 tcaagga 127

<210> 397
 <211> 126
 <212> DNA
 <213> Zea mays

<400> 397

ctctagttct agctagctag caaagggggg gaaaatggct ccgcttctcg ctgctgccat 60
 gaaccacgct gcagcccatc ctggccttag gagccaccta gtaggacca acaatgagag 120
 tttctc 126

<210> 398
 <211> 238
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(238)
 <223> unsure at all n locations

<400> 398

cngnncgntg ggtcgaccca ccgcgtccgc nccaacgcgt ccgcggacgc gtgggcaaag 60
 cagctcaaag ctctagtact agctagctag caaagggggg gaanntggct ccgcttactc 120
 gctgctgcca tgaaccacgc tgcagcccat cctggcctta ggagccacct agtaggaccc 180
 aacaatgaga gtttctcacg gcaccacctg ccgtcttctt ctccacagag cagcaagg 238

<210> 399
 <211> 131
 <212> DNA
 <213> Zea mays

<400> 399

agaatactgc cgaagggaac caaagaagga ggtattaacc cggatggcat caagtactac 60

gacaggggtga agaactgttt tancttcaac gagccgaggt gcgtcggngg tcnngggctac 60
gacaatggct tgcacgcacc gggaaggtgt tccgggtgcc ccgccggagg caactccacc 120
acggagccgt accttgtcgc acaccatctc atcctttctc atgcagctgc ngtcaggcga 180
taccgcgaca agtatcagct tcaccagaag gggaagattg gaattctcct ggatttcgtg 240
tggtacgaac ctttcagcga cagcaatgcn gaccaggctg cagcacagcg agccagggac 300
ttccaccta gctgggttcct tgacccatt gtcattggacc gtcccgtact ngatgcaaga 360
aaatgnccaa nacaagnttn ccgntggta accattgaaa aaaccncgat ggtgnaaagg 420
tttatngacn atttttggnt tca 443

<210> 407
<211> 291
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(291)
<223> unsure at all n locations

<400> 407

aactggttta cctttcaacg agccgaggtg cgctcgtgct ctgggctacg acaatggctt 60
gcacgcaccg ggaaggtgtt ccgggtgcc ccgccggagg actccaccac ggagccgtac 120
cttgctgcac accatctcat cttttctcat gcagctgcgg tcaggcgata ccgcgacaag 180
tatcagcttc accagaaggg gaagattgga atctcctgga tttcgtgtgg tacgaacctt 240
tcagcgacan aatgcggacc aggctgcagc acagcgagcc aggattccac t 291

<210> 408
<211> 256
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(256)
<223> unsure at all n locations

<400> 408

tgctcgtg ctctgggcta cgacaatggc ttgcacgcac cgggaaggtg ttccgggtgc 60
ccgccggag gaactccacc acggagccgt accttgtcgc acaccatctc atcctttctc 120

atgcagctgc tgnaggnga taccgcnaca agtatnanct tcaccagaag gggaagattg 180
gaantattat agattttntg tngtangaac ctttatctac ancaatgcng acnangctgc 240
agcacagcna gccang 256

<210> 409
<211> 306
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(306)
<223> unsure at all n locations

<400> 409

acaccatctc atcctntctc atgcagctgc ngtcaggcga tnccgcgaca agtatcagct 60
tcaccagaag gggaagattg gaattctcct ggatttcgtg tggtacgaac ctttcagcga 120
cagcaatgcg gaccaggctg cagcacagcg anccagggnc tttcacctag gctgggttcct 180
tganccatt gtacatggac ggtacccgta ctcgatgnaa gagatgccna agacaggnta 240
ccgttggttca gcgatgnaga agccaggatg gtgaaangct ctatngatta tgttggcatc 300
aaccac 306

<210> 410
<211> 285
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(285)
<223> unsure at all n locations

<400> 410

cgacacccat ctcatccttt ctcatgcagc tgcggtcagg cgataccgcg acaagtatca 60
gcttcaccag aaggggaaga ttggnattct cctggatttt gtgtggtacg aacctttcag 120
cgacagcaat gcggaccagg ctgcagcaca gcgagccagg gacttccacc taggctgggtt 180
ccttgacccc attgtacatg gacggtaccc gtactcgatg caagagattg ccaaagacag 240
gctaccgttg ttcagcgatn aagaagccag gatggtgaaa ggctc 285

<210> 411
<211> 202

ttggcaaaag ggcgtactcg gactggcttt acgtcgttcc atgggggctc tacaaggctc 120
 tgatttggac caaggagaag ttcaacagcc ctgtgatgct catcggagag aacggaattg 180
 accagcctgg aaatgagacc ttgccgttcg ctctgtacga caattcagga tagactattc 240
 gagaagtacc tgtacgagct ccagtggcgc catacgcgac ggtgcaaacg tc 292

<210> 414
 <211> 467
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(467)
 <223> unsure at all n locations

<400> 414

ggcctgcagc gccagcgcag cgcctctctg ctactgtgct ggctgacgcc ggtggggngt 60
 gagcgaactg cgagctgctg ccaccctgc tgccgcggtc gaccgccggc cccggaccga 120
 gatggacgct cgggtgggcgg tgctgctcgc gctgctggtc gccagcggcg gcgtccgtgt 180
 ctgcgccgcc gctggggcca agggcgccaa ctggctgggc gggctgagcc gcgcgtcgtt 240
 cccaagggg ttctgtttcg ggacggcgac gtnggcgtac caggtcgagg gcgccngtn 300
 caccaacggn cggggccctt tcatctggga ttcatctcgc cacgttccaa gaaatattgc 360
 anggaatcaa aatggaaacg tttcaatgga tcaataccat cgntncaagg aaanacgtcg 420
 atttctcatga aaaggttgaa cttttgatgc ctaccggntc tnaatnt 467

<210> 415
 <211> 441
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(441)
 <223> unsure at all n locations

<400> 415

ggcnagcgag tgtggctgcc gcttnctctg cgagtnaggc gccatttaat aattcaattg 60
 gaccnccaag cccacgcttc cgaattcacc gactcctcct ncacgccgcg tcgagatcgc 120
 tcaggccttc gcttccagca actccaccac tcagnccacc cgccggagca atggggagca 180
 cngggcgcca gccggaggtt acccgcgccg acttncccga tggttcgnc ttcggcgctg 240

cggcgncgtc ggcctaccag gtggagggca tgnccgacaa ggacggccgc tggcctagca 300
tttggtgta 307

<210> 418
<211> 272
<212> DNA
<213> Zea mays

<400> 418

ctagagtcca ggtctcactc gcgaccgaga gccacagaga aatggggggcc cctgctcgtc 60
cctggcgccg gcacgtcttc ctgctcgtgt cgctgcagct gctccttggtg gcgccatggc 120
aggacgagac ggccgctcga gctctcaatt tcaccaggca ggatttcccc agggccttcg 180
tctttggtgc cggcacgtca gcttatcagt acgaagggca accgatgaag acggaaggag 240
ccccaagcat atgggacaat ttactcatgc ag 272

<210> 419
<211> 452
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(452)
<223> unsure at all n locations

<400> 419

tcggaatagt cctggacttc aactggtacg aggctcttac aaactcacct gatgaccaag 60
cagcagccca aagagccagg gacttccaca ttggctgggtt tggtgatcca ttgataaacg 120
gacactatcc acagataatg caagatctcg tgaaggagag gctgcccagg ttcactcctg 180
agcaggctaa actggtgaag ggctcggcag actacatcgg tatcaacgag tacacatcca 240
gctacatgaa ggggcagaag ctgggtccagc tggcgcccag tagctactct gccgattggc 300
aggttcaata tgtttttgca cgcaatggca aaccgattgg accacaggcg aattctaagt 360
ggctctacat cgccccgacg gggatgtacn ggtgcgtgaa ctaccttaag gagaagtatg 420
ggaatncaac gatctacata acggagaacg ga 452

<210> 420
<211> 450
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(450)
 <223> unsure at all n locations

<400> 420

atcttcccgg atggcgaagg gaaagtcaat ccagaagggtg tagcgtatta caatanttng 60
 ataaactatc tgcttcagca aggcatgact ccttacatca acctttacca ctatgatctt 120
 cctcttgccg ttgagaagaa atatggaggg tggttaagcg cgaagatggc ggacttggtt 180
 acagactatg ctgacttctg ttttaagacc tacggcgatc gcgtaaagca ctggtttaca 240
 ttcaatgagc caaggatagt agcgctactt ggctatgaca caggggtcaaa tcctcctcaa 300
 aggtgcacca gatgcgctgc tgggtgggaat tcagcaaccg aaccttacat agttgctcat 360
 aattttctct tggcacatgc tactgcagtt gcaagatacc gtacgaaata tcangctgct 420
 caaaaanggta aggtccgaat agtcctggac 450

<210> 421
 <211> 464
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(464)
 <223> unsure at all n locations

<400> 421

tgcagttgca agataccgta cgaaatatca ggctgctcag aagggttaagg tcggaatagt 60
 cctggacttc aactggtacg aggctcttac aaactcacct gatgaccaag cagcagccca 120
 aagagccagg gacttccaca ttggctgggtt tggtgatcca ttgataaacg gacactatcc 180
 acagataatg caagatctcg tgaaggagag gctgcccagg ttcactcctg agcaggctaa 240
 actggtgaag ggctcggcag actacatcgg tatcaacgag tacacattca gctacatgaa 300
 ggggcagaag ctggtccagc tggcgcccag tagctactct gccgattggc aggttcaata 360
 tgtttttgca cgcaatggca aaccgattgg accacaagcg aattctaaag tggctctaca 420
 tngncccgcac ngggatgtcc nggtgcgtga actancttaa gggg 464

<210> 422
 <211> 471
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(471)
 <223> unsure at all n locations

<400> 422

ccaagttcac tcctgagcag gctaaactgg gtgaagggct cggcagacta catcgggtatc 60
 aacgagtaca catccagcta catgaagggg cagaagctgg tccagctggc gccagtagc 120
 tactctgccg attggcaggt tcaatatgtt tttgcacgca atggcaaacc gattggacca 180
 caggcgaatt ctaagtggct ctacatcgcc ccgacgggga tgtacgggtg cgtgaactac 240
 ctcaaggaga agtatgggaa tccaacgata tacataacgg aagaacggaa tggaccagcc 300
 tggaaacttg acccgagacc agtacctgcg cgacgccacg aggggtgcgg tctacaggag 360
 ctacatcgcc caactgaaga aaggccatag accaagggag cgaacgtggc tgggctactt 420
 cgccctgggt ctctcctccn acaacttcga ntggctggca agggttactc c 471

<210> 423
 <211> 465
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(465)
 <223> unsure at all n locations

<400> 423

cagaagggtta aggtcggat agtcctggac ttcaactggg acgaggctct taaaaactca 60
 cctgatgacc aagcagcagc ccaaagagcc agggacttnc acattggctg ggttttgttga 120
 tccattgata aacggacact atccacagat aatgcaagat ctctgaagg agaggctgcc 180
 caggttcact cctgagcagg ctaaactggg tgaaagggct cggcagacta catcgggtatc 240
 aacgaagtac acattcagct acatgaaggg gcagaagctg gtccagctgg cncccaatag 300
 ctactctgcc gattggcagg ttcaatatgt ttttgcacgc aatggcaaac cgattggacc 360
 acaggcgaat tctaaagtgg ctctacattg ccccgacggg gatgtacngg tgcgtgaact 420
 acctcaagga gaagtatggg aatncaacga tctacataac ggaga 465

<210> 424
 <211> 463
 <212> DNA

<213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(463)
 <223> unsure at all n locations

<400> 424

ctttaccact atgatcttcc tcttgcgctt gagaagaaat atggagggtg gttaagcgcg 60
 aagatggcgg acttgtttac agactatgct gacttctgtt ttaagaccta cggcgatcgc 120
 ggtaaagcac tggttttacat tcaatgagcc aaggatagta gcgctacttg gctatgacac 180
 aggggtcaaata cctcctcaaa ggtgcaccag atgcgctgct ggtgggaatt cagcaaccga 240
 accttacata gttgctcata attttctctt ggcacatgct actgcagttg caagataccg 300
 taccgaaata tcaggctgct canaagggtg aaggctcgaa tagtcctgga cttcaactgg 360
 gaccaaggct nttacaaact tnaccttgat gaccaagca nnangcccna aaaagccagg 420
 ggccttncac atggctnggt ttggtngatc cattgataaa ccg 463

<210> 425
 <211> 319
 <212> DNA
 <213> Zea mays

<400> 425

tgctactgca gttgcaagat accgtacgaa atatcaggct gctcagaagg gtaaggctcg 60
 aatagtctctg gacttcaact ggtacgaggc tcttacaac tcacctgatg accaagcagc 120
 agcccaaaga gccagggact tccacattgg ctggtttgtt gatccattga taaacggaca 180
 ctatccacag ataatgcaag atctcgtgaa ggagaggctg cccagggttca ctcctgagca 240
 ggctaaactg gtgaagggtc cggcagacta catcggtatc aacgagtaca catccagcta 300
 catgaagggc agaactggt 319

<210> 426
 <211> 453
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(453)
 <223> unsure at all n locations

<400> 426

atcttcccg atggcgaagg gaaagtcant ccagaaggtg tagccgtatt acaatagttn 60
gataaactat ctgcttcagc aaggcatgac tccttacatc aacctttacc actatgatct 120
tnctcttgcg cttgagaaga aatatggagg gtgggtaagc gcgaagatgg cggacttggt 180
tacagactat gctgacttct gttttaagac ctacngcgat cgcgtaaagc actgggtttac 240
attcaatgag ccaaggatag tagcgctact tggctatgac acaggggtcaa attctcctca 300
aaggtgcacc aaatgcncctg ctggtnggaa ttcagcaacc gancnttaca tatttgctca 360
taattatctn ttggcacatn ctantncagt tgcnnagatn ccggacgaan ttnnngctgc 420
tcanaaanng ttagngtnag gaattantcc tgg 453

<210> 427
<211> 377
<212> DNA
<213> Zea mays
<220>
<221> unsure
<222> (1)...(377)
<223> unsure at all n locations

<400> 427
ctacctcaag gagaagtatg ggaatccaac gatctacata acggagaacg gaatggacca 60
gcctggaaac ttgacccgag accagtacct gcgcgacgcc acgaggggtgc ggttctacag 120
gagctacatc ggccagctga agaaggccat agaccaggga gcgaacgtgg ctggctactt 180
ctcctgggtct ctcctcgaca attcgagtgg ctggcagggt actcgtccaa gttcggcatc 240
gtctacgtgg acttcaacac gctcgaacgc caccogaagg cgtcggccta ctngttcang 300
gacatgcttc agaagcattg agatctccag agccgagcct gagcacggaa ngtaccattt 360
tgttcagctt cgccatag 377

<210> 428
<211> 302
<212> DNA
<213> Zea mays

<400> 428
cggacttggt tacagactat gctgacttct gttttaagac ctacggcgat cgcgtaaagc 60
actgggtttac attcaatgag ccaaggatag tagcgctact tggctatgac acaggggtcaa 120
atcctcctca aaggtgcacc agatgcgctg ctgggtgggaa ttcagcaacc gaaccttaca 180

tagttgctca taattttctc ttggcacatg ctactgcagt tgcaagatac cgtacgaaat 240
atcaggctgc tcagaagggt aaggctcgga tagtcctgga cttcaactgg tacgaggctc 300
tt 302

<210> 429
<211> 455
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(455)
<223> unsure at all n locations

<400> 429

ccangccttc ggaaaccgnt tggncanag gncaattcta angggnttta nattnggccc 60
gaccgggatn taccgggtnc ctinnacctan ctttaagggan aaagatnggg aatccaacga 120
tctacataac ggagaacgga atggaccaac ctggaaactt gacccgagac cagtacctgc 180
gcgacgccac gaggggtgcgg ttctacagga gctacatcgg ccagctgaag aaggccatag 240
accagggagc gaacgtggct ggctacttcg cctgggtctct cctcgacaac ttcgagtggc 300
tggcagggtta ctctccaag ttcggcatcg tctacgtgga cttcaacacg ctggaacgcc 360
acccaaggc gtcggcctac tgggttcaagg gacatgcttc agaagcattg agatctncag 420
agcccgagcc tgagcacgga aggtaccatt tttgt 455

<210> 430
<211> 312
<212> DNA
<213> Zea mays

<400> 430

cagaagggtta aggtcggat agtcctggac ttcaactggt acgaggctct taaaaactca 60
cctgatgacc aagcagcagc ccaaagagcc agggacttcc acattggctg gtttgattgat 120
ccattgataa acggacacta tccacagata atgcaagatc tcgtgaagga gaggctgccc 180
aggttcactc ctgagcaggc taaactggtg aagggtcgg cagactacat cggtatcaac 240
gagtacacat ccagctacat gaaggggcag aagctgggtcc agctggcgcc cagtagctac 300
tctgccgatt gg 312

<210> 431
 <211> 305
 <212> DNA
 <213> Zea mays

<400> 431

cgaaatatca ggctgctcag aagggttaagg tcggaatagt cctggacttc aactgggtacg 60
 aggctcttac aaactcacct gatgaccaag cagcagccca aagagccagg gacttccaca 120
 ttggctgggtt tgttgatcca ttgataaacg gacactatcc acagataatg caagatctcg 180
 tgaaggagag gctgcccagg ttcactcctg agcaggctaa actgggtgaag ggctcggcag 240
 actacatcgg tatcaacgag tacacatcca gctacatgaa ggggcagaag ctgggtccagc 300
 tggcg 305

<210> 432
 <211> 299
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(299)
 <223> unsure at all n locations

<400> 432

tgctactgca gttgcaagat accgtacgaa atatcaggct gctcagaagg gtaagggtcgg 60
 aatagtcctg gacttcaact ggtacgaggc tcttacaac tcacctgatg accaagcagc 120
 agcccaaaga gccagggact tccacattgg ctggtttggt gatccattga taaacggaca 180
 ctatccacag ataatgcaag atctcgtgaa ggagaggctg cccagggttca ctcttgagca 240
 ggctaaactg gtgaanggct cggcagacta catcggtatc aacgagtaca catccagct 299

<210> 433
 <211> 323
 <212> DNA
 <213> Zea mays

<400> 433

gctgggtccag ctggcgccca gtagctactc tgccgattgg caggttcaat atgtttttgc 60
 acgcaatggc aaaccgattg gaccacaggc gaattctaag tggctctaca tcgccccgac 120
 ggggatgtac ggggtgcgtga actacctcaa ggagaagtat gggaatccaa cgatctacat 180
 aacggagaac ggaatggacc agcctggaac cttgaccgga gaccagtacc tgcgcgacgc 240

cacgaggggtg cggttctaca ggagctacat cggccagctg aagaaggcca tagaccaggg 300
agcgaacgtg gctggctact tcg 323

<210> 434
<211> 295
<212> DNA
<213> Zea mays

<400> 434

ggcgaattct aagtggctct acatcgcccc gacggggatg tacgggtgcg tgaactacct 60
caaggagaag tatgggaatc caacgatcta cataacggag aacggaatgg accagcctgg 120
aaacttgacc cgagaccagt acctgcgcga cgccacgagg gtgcggttct acaggagcta 180
catcggccag ctgaagaagg ccatagacca gggagcgaac gtggctggct acttcgcctg 240
gtctctcttc gacaacttcg agtggctggc aggttactcg tccaagttcg gcac 295

<210> 435
<211> 287
<212> DNA
<213> Zea mays

<400> 435

tcttcctctt gcgcttgaga agaaatatgg aggggtggtta agcgcgaaga tggcggactt 60
gtttacagac tatgctgact tctgttttaa gacctacggc gatcgcgtaa agcactgggt 120
tacattcaat gagccaagga tagtagcgct acttggctat gacacagggt caaatcctcc 180
tcaaaggtgc accagatgcg ctgctgggtg gaattcagca accgaacctt acatagttgc 240
tcataatttt ctcttggcac atgctactgc agttgcaaga taccgta 287

<210> 436
<211> 472
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(472)
<223> unsure at all n locations

<400> 436

gggacnnega gattnantgg tttgtcagat ccattgataa acnggacact annacacat 60
gggtnnngga tntnatnaag gagagcctgc ccanttcac tcctgagcag nctagactgg 120

ngaagggctc ganagactac atcggtatca acgagtacac atccagctac atgaaggggc 180
 anaagctggt ccanntgcgc ccagtancta ctctgccgat tggcaggttc aatatgngtt 240
 tgcacgcaat gncanaccga ttggaccaca gnnaagttct aagtggctct acatcgcccn 300
 nacgggggatg tacgggtgcg tgaactacct caangagaag tatgngaate caacggatct 360
 acataacgga gaacggaatg gaccaacctg gaaacttgac ccgagaccag tacctgcgcg 420
 annccacgaa ngtgcggntc tacaggaact acatnggccca tntnaataaa gg 472

<210> 437
 <211> 301
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations
 <400> 437

agataccgta cgaaanatca ggctgctcag aagggttaagg tcggaatagt cctggacttc 60
 aactggtacg aggctcttac aaactcacct gatgaccaag cagcagccca aagagccagg 120
 gacttccaca ttggctgggtt tgttgattcc attgataaac ggacactatc cacagataat 180
 gcaagatctc gtgaaggaga ggctgcccag gttcactcct gagcaggcta aactggtgaa 240
 aggctcggca gactacatcg gtatcaacga gtacacatcc agctacatga aggggcagaa 300
 g 301

<210> 438
 <211> 297
 <212> DNA
 <213> Zea mays
 <400> 438

caagcagcag cccaaagagc cagggacttc cacattggct ggtttggtga tccattgata 60
 aacggacact atccacagat aatgcaagat ctctgaagg agaggctgcc caggttcact 120
 cctgagcagg cttaaactggt gaagggtctg gcagactaca tcggtatcaa cgagtacaca 180
 tccagctaca tgaaggggca gaagctggtc cagctggcgc ccagtagcta ctctgccgat 240
 tggcaggttc aatatgtttt tgcacgcaat ggcaaaccga ttggaccaca ggcgaaat 297

<210> 439
 <211> 281
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(281)
 <223> unsure at all n locations

<400> 439

gttttaagac ctacggcgat cgcgtaaagc actgggtttac attcaatgag ccaaggatag 60
 tagcgctact tggctatgac acaggggtcaa atcctcctca aaggtgcacc agatgcgctg 120
 ctggtgggaa ttcagcaacc gaaccttaca tagttgcnca taattttctc ttggcacatg 180
 ctactgcagt tgcaagatac cgtacgaaat atcaggctgc tcagaagggt aaggtcggaa 240
 tagtcctgga cttcaactgg tacgaggctc ttacaaactc a 281

<210> 440
 <211> 306
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations

<400> 440

cggaatggac cagcctggaa acttgacccg agaccagtac ctgcgcgacg ccacgaggggt 60
 gcggttctac aggagctaca tcggccagct gaagaaggcc atagaccagg gagcgaacgt 120
 ggctggctac ttncctgggt ctctcctcga caacttcgag tggctggcag ggtactcgtc 180
 caagttcggc atcgtctacg tggacttcna cacgctcgaa cgccacccga aggcgtcggc 240
 ctactngttc agggacatgc ttcagaagcn tgagatctcc aganccgagc ctgagcacgg 300
 aagtac 306

<210> 441
 <211> 294
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

<400> 441
 gggacttcca cattggctgg tttgttgatc cantgataaa cggacactat ccacagataa 60
 tgcaagatct cgtgaaggag aggctgcccc ggttcactcc tgagcaggct aaactgggtga 120
 agggctcggc agactacatc ggtatcaacg agtacacatc cagctacatg aaggggcaga 180
 agctgggtcca gctggcgccc agtagctact ctgccgattg gcagggttcaa tatgtttttg 240
 cacgcaatgg caaaccgatt ggaccacagg cgaattctaa gtggctctac atcg 294

<210> 442
 <211> 471
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(471)
 <223> unsure at all n locations

<400> 442
 gcgtccacca acggccgggg cccctccatc tgggattcat tcgcgcacgt cccaggaaat 60
 attgcnggga atcaaaatgg agacgttgca gtggatcaat accatcgcta caaggaagac 120
 gtcgatctca tgaaaagttt gaactttgat gcctaccggt tctcaatctc atggtccagg 180
 atcttcccgg atggcgaagg gaaagtcaat ccagaagggtg tagcgtatta caataatttg 240
 ataaactatc tgcttcagca aggcatgact ccttacatca acctttacca ctatgatctt 300
 cctcttgccg ttgagaagaa atatgggagg gtggttaagc cgcgaaagat ggcgggactt 360
 ggttacagac tatgctgact tctggtttaa gacctacggn gaatcgcgtn aaagcactgg 420
 gttacanttc atngnnccaa ggtagtacc gctacttggg ttttnaacia g 471

<210> 443
 <211> 452
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(452)
 <223> unsure at all n locations

<400> 443
 gttcttgatc agattgttga cttttatttg nnnngncaga aagntanngn cnggaanagt 60

cctggacttc aacnggtacg aggtctttac aaactcacct gatgaccaag caancancnn 120
 aanagccag gnacttgcac atnggcnggn nngtagatcc attgataaac ggacactatc 180
 cacagataan gcaagatctc gcgaaggaga ggctgcccag gttcactccn gagcaggcta 240
 aactggtgaa gggctcgnca gactacatcn gtatcaacga gtacacatcc aactacatga 300
 anggggcana anctgganica gctggccccc agganctact ctgccgaatg gcagggttcaa 360
 tatgtntttg cacgcaatgg caaaccatt ggaccacaag ccaatctaag nggctctana 420
 tngcccccgc cggtattgta cnggtncctg aa 452

<210> 444
 <211> 264
 <212> DNA
 <213> Zea mays

<400> 444

cagaagggtg aggtcggaat agtcctggac ttcaactggt acgaggctct tacaaactca 60
 cctgatgacc aagcagcagc ccaaagagcc agggacttcc acattggctg gtttggtgat 120
 ccattgataa acggacacta tccacagata atgcaagatc tcgtgaagga gaggtctgcc 180
 aggttcactc ctgagcaggc taaactggtg aagggtctcg cagactacat cggatatcaac 240
 gagtacacat ccagctacat gaag 264

<210> 445
 <211> 263
 <212> DNA
 <213> Zea mays

<400> 445

ggctatgaca cagggtcaaa tcctcctcaa aggtgcacca gatgcgctgc tgggtgggaat 60
 tcagcaaccg aaccttacat agttgctcat aattttctct tggcacatgc tactgcagtt 120
 gcaagatacc gtacgaaata tcaggctgct cagaagggtg aggtcggaat agtcctggac 180
 ttcaactggt acgaggctct tacaaactca cctgatgacc aagcagcagc ccaaagagcc 240
 agggacttcc acattggtgg ttt 263

<210> 446
 <211> 297
 <212> DNA
 <213> Zea mays

<400> 446

gatgaccaag cagcagccca aagagccagg gacttccaca ttgggctggt ttgttgatcc 60
 attgataaac ggacactatc cacagataat gcaagatctc gtgaaggaga ggctgcccag 120
 gttcactcct gagcaggcta aactgggtgaa gggctcggca gactacatcg gtatcaacga 180
 gtacacatcc agctacatga aggggcagaa gctgggtccag ctggcgccca gtagctactc 240
 tgccgattgg cagttcaata tgtttttgca cgcaatggca aaccgattgg accacag 297

<210> 447
 <211> 298
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(298)
 <223> unsure at all n locations

<400> 447

cggacacnat ccacagataa tgcaagatct cgtgaaggag aggctgcccc ggttcactcc 60
 tgagcaggct aaactgggtga agggctcggc agactacatc ggtatcaacg agtacacatc 120
 cagctacatg aaggggcaga agctgggtcca gctggcgccc agtagctact ctgccgattg 180
 gcagggttcaa tatgtttttg cacgcaatgg caaaccgatt ggaccacagg cgaattctaa 240
 gtggctctac atcgccccga cggggatgta cgggtgcgtg aatcacctcn aggagaag 298

<210> 448
 <211> 301
 <212> DNA
 <213> Zea mays

<400> 448

cactcctgag caggctaaac tgggtgaagg ctcggcagac tacatcggta tcaacgagta 60
 cacatccagc tacatgaagg ggcagaagct ggtccagctg gcgcccagta gctactctgc 120
 cgattggcag gttcaatatg tttttgcacg caatggcaaa ccgattggac cacaggcgaa 180
 ttctaagtgg ctctacatcg ccccgacggg gatgtacggg tgcgtgaact acctcaagga 240
 gaagtatggg aatccaacga tctacataac ggagaacgga atggaccagc ctggaaactt 300
 g 301

<210> 449
 <211> 322

<220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 451

gtcgggaatag tcctgggact tcaactggta cgaggctctt acaaactcac ctgatgacca 60
 agcagcagcc caaagagcca gggacttcca cattggctgg ttgttgatc cattgataaa 120
 cggacactat ccacagataa tgcaagatct cgtgaaggag aggctgcca ggttcactcc 180
 tgnncaggct aaactgggtga agggctcggc agactacatc ggtatcaacg agtacacatc 240
 cagctacatg aaggggcaga agctgggtcca gc 272

<210> 452
 <211> 447
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(447)
 <223> unsure at all n locations

<400> 452

gcgacgtcgg cgtaccaggt cgagggcgcc gcgccacca acggccgagg cccctccacc 60
 tgggacgcgt tcgtgcacac cccaggaaac attgtataca atcagacggc agatgtcgca 120
 gtggatcaat atcatcgcta cagggaagat gtcgacctca tgaaaagttt gaattttgat 180
 gcctaccggt tttcaatctc atgggtccagg atcttcccag atggcgaggg aagagtcaat 240
 ccagaagggtg ttgcctatta caacaatctg ataaactacc tgcttcggaa aggcattaca 300
 ccgtacgcca atccttacca ttcccgattc tcccctcttg cgcttcaaga acaagtatgg 360
 gaggggtgggt taaatngcca agatggcgaa nactgttcac aagnctangc cgaacttccg 420
 gtttttaaaga ctttggggga accgtng 447

<210> 453
 <211> 244
 <212> DNA
 <213> Zea mays

<400> 453

cgtacgaaat atcaggctgc tcagaagggt aaggctcgaa tagtcctgga cttcaactgg 60
 tacgaggctc ttacaaactc acctgatgac caagcagcag cccaaagagc cagggacttc 120

agataccgta cgaaatatca ggctgctcag aagggttaagg tcggaatagt cctggacttc 120
aactgggtacg agggctctta caaactcacc tgatgaccaa gcagcagccc aaagagccag 180
ggacttccac attggctggg ttgttgatcc attgataaac ggacactatc cacagatatg 240
cagatctcgt gaaggagagg ctgccc 266

<210> 457
<211> 231
<212> DNA
<213> Zea mays

<400> 457

agcggaaga tggcggactt gtttacagac tatgctgact tctgttttaa gacctacggc 60
gatcgcgtaa agcactgggt tacattcaat gagccaagga tagtagcgct acttggctat 120
gacacagggt caaatcctcc tcaaagggtgc accagatgcg ctgctgggtgg gaattcagca 180
accgaacctt acatagttgc tcataatttt ctcttggcac atgctactgc a 231

<210> 458
<211> 248
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(248)
<223> unsure at all n locations

<400> 458

anctgggtcca gctgggcgcc agtagctact ctgccgattg gcagggttcaa tatgtttttg 60
cacgcaatgg caaacggatt ggaccacagg cganttctaa gtggctctac atcgccccga 120
cggggatgta cgggtgctg aactacctca aggagaagta tgggaatcca acgatctaca 180
taacggagaa cggaatggac cagcctggaa acttgacccg agaccagtac ctgcgcgacg 240
ccacgagg 248

<210> 459
<211> 482
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(482)

<210> 462
 <211> 196
 <212> DNA
 <213> Zea mays

<400> 462

cccaggttca ctcctgagca ggctaaactg gtgaagggct cggcagacta catcggtatc 60
 aacgagtaca catccagcta catgaagggg cagaagctgg tccagctggc gccagtagc 120
 tactctgccg attggcaggt tcaatatgtt tttgcacgca atggcaaacc gattggacca 180
 caggcgaatt ctaagt 196

<210> 463
 <211> 184
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(184)
 <223> unsure at all n locations

<400> 463

aganatatgg aggggtggta agcgcgaaga tggcggactt gtttacagac tatgctgact 60
 tctgttttaa gacctacggc gatcgcgtaa agcactgggt tacattcaat gagccaagga 120
 tagtagcgct acttggctat gacacagggc caaatcctcc tcaaaggtgc accagatgcg 180
 ctgg 184

<210> 464
 <211> 192
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(192)
 <223> unsure at all n locations

<400> 464

gaaggagagg ctgcccaggt tcactcctga gcaggctaaa ctggtgaagg gctcggcaga 60
 ctacatcggt atcaacgagt acacatccag ctacatgaag gggcagaagc tgggccagct 120
 ggcgcccagt agctactctg ccgattggca ggttcaatat gtttttgac ncnatggcaa 180
 accgattgga cc 192

<210> 465
 <211> 354
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(354)
 <223> unsure at all n locations

<400> 465

aaaaacatag gctgctcaga agggtaaggt cggaatagtc ctgganttca actggtacga 60
 ggctcttaca aactcacctg atgaccaagc agcaacncaa agagccaggg acttccacat 120
 tggctggttt gtngatncat tgataaacgg acatatccnc agataatgca agatctcgtg 180
 aaggagaggt gcccaggtn c acnctgagna ggctaaactg gtgaagggnn tnggnagact 240
 acatcgtntc acggagtaca cntcnagtac angaaggggc aaaactgggtc cagtgnngcc 300
 cantagtact ntccngnttg gcaggntcat atgttgngat taatncttgt nttt 354

<210> 466
 <211> 266
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 466

ccgcgcgctc ttcccccaagg ggttcgtgtt cgggacggcg acgtcggcgt accaggtcga 60
 gggcgccgcg tccaccaacg gccgcngccc ctccatctgg gattcantcg cgcacgtccc 120
 aggaaatatt gcaggggaatc aaaatggaga cggtgcagtg gatcaatacc atcgctacaa 180
 ggaagacgtc gatctcatga aaagtttgaa ctttgatgcc taccggttct caatctcatg 240
 gtccaggatc ttcccggatg gcgaag 266

<210> 467
 <211> 286
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(286)

<223> unsure at all n locations

<400> 467

gnnaccgana cttacatagt tgcncataat tnnnctcntg gcacangcta ctgcngttgc 60
nagataaccgt acganatatc aggctgctca gaagggttaag gtcggantag tcctggactt 120
naantgggtan gaggtcttta caaactcacc tgatgngcca agcagcagcc caaagagcca 180
gggacttcca cattggctgg tttgttgatc cattgataaa cggacactat ccacagataa 240
tgcaagatct cgtgaaggag aggctgcccc ggttcactcc tgagca 286

<210> 468

<211> 351

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(351)

<223> unsure at all n locations

<400> 468

ggcggacttg tttacagact atgctgactn ctgttttaag acctacggcg atcgcgтана 60
gcactggtn acnttncaat gagccaagg naggcgct acttggctat gacacagggt 120
caaactctcc tcaaagggtgc accagatgcg cngctgggtgg gattcngcna ccgaacctna 180
catngttgct cataattntc ncttggcaca tgctactgtn ttgcaaganc cggacganaa 240
tcaggctgct cagaagggn ggtnggaata ccnngnttc cantgnctag gncgtncnaa 300
tcactgatga cnagcgagna gccnnaaagn cagggttnn acattgcggn t 351

<210> 469

<211> 197

<212> DNA

<213> Zea mays

<220>

<221> unsure

<222> (1)...(197)

<223> unsure at all n locations

<400> 469

ctttgatnac ctaccggttc tcaatctcat ggtccaggat cttcccngat ggcgaaggga 60
aagtcaatcc agaagggtgta gcgtattaca ataatttgat aaactatctg cttcagcaag 120
gcatgacncc cttacatcaa cttttaccac tatgatntc ctcttgcgct tgagaagaaa 180

tatggagggt ggttaag 197

<210> 470
<211> 245
<212> DNA
<213> Zea mays

<400> 470

cgctacaagg aagacgtcga tctcatgaaa agtttgaact ttgatgccta ccggttctca 60
atctcatggg ccaggatctt cccggatggc gaagggaag tcaatccaga aggtgtagcg 120
tattacaata atttgataaa ctatctgctt cagcaaggca tgactcctta catcaacctt 180
taccactatg atcttcctct tgcgcttgag aagaaatatg gagggtggtt aagcgcgaag 240
atggc 245

<210> 471
<211> 166
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (1)...(166)
<223> unsure at all n locations

<400> 471

gnnncgttgc agtggatcaa taccatcgct acaaggaaga cgatcgatctc atgaaaagtt 60
tgaactttga tgcctaccgg ttctcaatct catgggtccag gatctncccg gatggcgnag 120
ggaaagtcaa tccagaaggt gtagcgtatt acaataattt gataaa 166

<210> 472
<211> 99
<212> DNA
<213> Zea mays

<400> 472

gcgtattaca ataatttgat aaactatctg cttcagcaag gcatgactcc ttacatcaac 60
ctttaccact atgatcttcc tcttgcgctt gagaagaaa 99

<210> 473
<211> 455
<212> DNA
<213> Zea mays

<220>
 <221> unsure
 <222> (1)...(455)
 <223> unsure at all n locations
 <400> 473

gaaaagtttg aactttgatg cctaccgggt ctcaatctca tgggccanga tctttccggn 60
 tggngaaagg aaangcaatc caaaaagggt aaccgnatta caataatttg gtaaactatn 120
 tggtttaaca agggntgnaa ttcttanatt aaaccttacc cctattgaac tttccttttg 180
 cgccttgnaa agaaaatatn ggagggtggg nttaancccc aaaaatggcg ggactttggt 240
 tacaggacta tgctgacttc tgggtttaag acctacggcg atcgcgtaaa gcaactgggt 300
 tacattcaat gagccaagga tagtaaccgc tacttggtta tgacacangg tcaaatcctt 360
 ctcaaangtg caccagatgc gctgctggtg ggaattcaag caaccgaac cttacataag 420
 ttgctcataa ttttctcttt tngggggcac atgct 455

<210> 474
 <211> 315
 <212> DNA
 <213> Zea mays
 <400> 474

ggccaagcta gtcaagggt catcaggtgt gaaattggta gccggtcttt cacaatgtct 60
 tgcattatct ttggatattg cccatttatt aatggatcaa gaaaccaacc aatatggaag 120
 tccctggccc tttgcgctgc tttttgatct tcagttgagt ttgtaaaagg ttcataaccag 180
 ttgaagtcaa gaactatccc gaccttgctt ttctgagttg cctgggtattt attgcggtat 240
 cttgcaactg cagtagcatg agataggaga atgttatgaa caacaatgta aggttctgtc 300
 gatgagttcc caccg 315

<210> 475
 <211> 285
 <212> DNA
 <213> Zea mays

<220>
 <221> unsure
 <222> (1)...(285)
 <223> unsure at all n locations
 <400> 475

ctcatgctac tgtcagttgc aagataccgc aataaatacc aggcaactca nnaaggcaan 60
 gtcgggatnc ttcttgantt caactggtat gaacctttta caaactcaac tgaagatcaa 120
 ancgcnccgc aaagggccag ggacttccat attggttggt ttcttgatcc attaataant 180
 gggcaatatc caaagataat gcaagacatt gtgaaagacc ggctaccaag tttnacacct 240
 gaacaggcca agctagtcaa gggctcatca gactatttcg ggatc 285

<210> 476
 <211> 327
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(327)
 <223> unsure at all n locations

<400> 476
 gctccgtaaa gctcgcggtg cttgctcttc tgctagcngc agcagctcac cacggtctgc 60
 tgccgtgccg acggcgcgat gctactgggc tcaaccgga gatctacgac gccggcgcg 120
 tgagcngccg cgcgttcccg gatggcttcg tctactggac ggctgcgctc gcgtaccagg 180
 tcgaggggat ggccaagcac ggcgggcggg gccccagcat ctgggacgcc ttcataagg 240
 ttcccgggac catccctaac aatgccaccg tgacgtgacg gtcgacgagt atcatcggt 300
 caaggaagat gtgaacataa tgaagaa 327

<210> 477
 <211> 180
 <212> DNA
 <213> Zea mays
 <220>
 <221> unsure
 <222> (1)...(180)
 <223> unsure at all n locations

<400> 477
 cgcggtgctt gctcttctgc tagcggcagn agctcaccac ggtctgctgc cgctgccgac 60
 ggcgcgatgc tactggctca acccgagat ctacgacgcc ggcgcgctga gccgccg 120
 gttcccggat ggattcgtct tcgggacggc tgcgtcggcg taccaggctc aggggatggc 180

<210> 478
 <211> 434

agagttaaag gggcgggaaa ggttgggaga caagtcgcta tttgtcttga ttaatggggg 120
 agcctgatct tttttccaag tgattgtggt tttattagct ggctcttggt aggagcttta 180
 ttgatgactg cttagatttc cttaagatac attttgatgc tgcggaaacg gaaagcgtgc 240
 tttgtttgag cgcgctcagt tctgctca 268

<210> 481
 <211> 227
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(227)
 <223> unsure at all n locations
 <400> 481

aatgtttcaa gacataacga cattgttggt ggatcacaag gcgttttaaag acactgtcga 60
 cntttttgtc gatcggtaca gagacatggc acatttccgt tgttgccgga attgaggcta 120
 gggggttcat gtttgggtccc tcaattgcgt tgggcattgg tgcaaagttt gttccnttac 180
 gcaaacacgg aagctgcca gtgaagtaat ttcagnaaaa tatgctc 227

<210> 482
 <211> 259
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations
 <400> 482

cgactntcnt aagccaggaa tnttgnntna ggacataacc acgctgcttc nggatnccaa 60
 aggctttcaa agacaccatt gacntgtttg nngagaggta cagagatcaa aacatcaatg 120
 tngtcgcagg agttgaagct agaggcttta tatttggtcc acccagtgca ntaggcantg 180
 gagcaaaaant tgtccccang agganacca anaaattgcc gggggngggt atcncagagg 240
 ggtatcnttg gnggagga 259

<210> 483
 <211> 142
 <212> DNA
 <213> Glycine max

<400> 483
aatggagatg catgtagggg ctgtacaacc tggagaacga gccttaatca tagatgatct 60
tattgccact gggggaacgt taggtgcagc aattaagctt ctagaacgtg ttgggggtgca 120
tgttgtggag tgtgctgtgt ga 142

<210> 484
<211> 270
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations

<400> 484
tttttctctc tgtactcaga ctcaactccc cacttattta tacantgtcg gcttacaaag 60
accaggatac ccgtcttcat ngcatcanan ctaaggtncg tgtcgtcccc aatttcccca 120
gatccggaat tgaagctcga ggttttattt ttggtcctcc cattgcgctg gctataggag 180
caaagtttgt accattgagg aaaccaaagg agttgcctgg aaaagttatt tctcangaat 240
atattctgga atatggaagg gactgtcttg 270

<210> 485
<211> 247
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(247)
<223> unsure at all n locations

<400> 485
gactnttcna acataatacn nttnttcgn ttgtgnttgg ttgcgcacgc aagnacgtta 60
caataatggc ttcgaagnat tctcaacaag acacgcgctt agcgannatc gcctctgcaa 120
tccngtcat ccccgacttt cctaagccag ggnttttgtg ncaggacata accncgntgc 180
ttcttgntac naaggctttc naagacacca ttganttgn tgtngagagg tacagaganc 240
aaaacat 247

<210> 486

<211> 268
 <212> DNA
 <213> Glycine max
 <400> 486
 ttgatacaaa ggctttcaaa gacaccgttg acttgtttgt tgagaggtac agagatcaaa 60
 acatcaatgt tgtcgcagga gttgaagcaa ggggctttat atttggtcca cccattgcat 120
 tagctattgg agcaaaattt gtcccatga ggaaacccaa taaattgcct ggggaggtta 180
 tctcagaaga gtattctttg gagtatggaa cagacaaaat ggagatgcat gtaggggctg 240
 tacaacctgg agaacgagcc ttaatcat 268

<210> 487
 <211> 261
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 487
 ggtgctgaag tgggtggaatg tgctgtgtc attggtgtgc ctgatgtcaa ggggcagtgc 60
 aggcgtattg gaaagccact ttatgttctt gttgagccgc gtaaagcaga taaatgttac 120
 ccagattgac atactaaagg acgctgggtg tgagnnacac aggccataat gtgatcctta 180
 agtttttaggc tgatggagtc gtgttcatgg caattgtcaa atatcatcct gggaaatggt 240
 catcctgttt catatcttat c 261

<210> 488
 <211> 283
 <212> DNA
 <213> Glycine max
 <400> 488
 gttcctttac gcaaaccacg gaagctgcca ggtgaagtaa tttcagaaaa atatgctcta 60
 gaatatggaa ctgattgctt ggagttgcat gttggtgctg cccagcccgg tgaacggggc 120
 ataataattg atgacttggg gccacaggt ggaactctgt cagcaggagt aaaacttcta 180
 gaacgtgttg gggctgaagt ggtggaatgt gctgtgtcat tgggtgtgccg atgtcaaggg 240
 gcatgcagga gtattggaaa gccactttat gttctgttga gcc 283

<210> 489
<211> 447
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(447)
<223> unsure at all n locations

<400> 489

aaaggaacca accactcttt tctttcaccg atcatacata caatgtcgac ttacagagac 60
gaggatcccc gtcttcatga catcaaaact aagattcgtg ttgtccctaa tttccccaaa 120
cctggaattg aagctcgggg tttcattttt ggttctccca ttgctctggc aataggagca 180
aagtttgtac cattgaggaa accaaaaaaa attgcctggc aaagttattt ctcaagagta 240
tattctggaa tatggnanag actgtcttga gatgcatgtt ggggccgttg aacctggtga 300
gcgtgcttta gtggttgatg atttgattgc cactggtgga actctctgtg cagccatggg 360
cttactnana gcnaattggg aancanaggt nnttggntt ncgntgtgt aattnaattg 420
ccannanttt aaagggcgtn aannggg 447

<210> 490
<211> 264
<212> DNA
<213> Glycine max

<400> 490

gttcgccgaa gagaatggcc tcaagggaga cccagactc caagccattt cccaagccat 60
cagagtcgtc cctcacttcc ccaaacatgg aataatgttc caagacataa cgacattgct 120
gttgatcac aaggcgttta aagacaccgt cgacattttt gtcgatcgtt acagagacat 180
gcacatttcc gtagttgctg gaattgaggc aaggggggtc atgtttggtc cctcaattgc 240
gttgggcatt ggtgcaaagt ttgt 264

<210> 491
<211> 261
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(261)
<223> unsure at all n locations

<400> 491
 ggagacccca gactccaanc catttcccaa gccatcagag tcgtccctca cttccccaaa 60
 catggaataa tgttccaaga cataacgaca ttggctggtg gatcacaagg cgtttaaaga 120
 caccgtcgac attnttgncg atcgntacag agacatgcac atttccgtag ttgctggaat 180
 tgaggcaagg gggtncatgt ttggtccttc aattgcnttg ggcattggtg caaagtttgt 240
 tcctttacgc aaaccacgga a 261

<210> 492
 <211> 292
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(292)
 <223> unsure at all n locations

<400> 492
 aacgctcaaa ccatacctttt ctttcgctct tcttccattc cacactaaaa agtaacngtt 60
 tcggagggaa acacaatata acacaaaaag cccccccac aaagcaaatac acctttttttt 120
 tcctttcaaa atgttcgccg aagagaatgg cctcaaggga gaccccagac tccaagccat 180
 ttcccaagcc atcagagtcg tccctcactt ccccaaacad ggaataatgt tccaagacat 240
 aacgacattg ctgttggtac acaaggcggt taaagacacc gtcgacattt tt 292

<210> 493
 <211> 262
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(262)
 <223> unsure at all n locations

<400> 493
 aaccatcctt ttctttcgct cttcttccat tccacactac anagtanatn anttcggagg 60
 gaaacacaat acaacacaaa aagccccccc cacaangcaa atcacctttt ttttcctttc 120
 aaaatgttcg ccgaagagaa tggcctcaag ggagacccca gactccaagc catttcccaa 180
 gccatcagag tcgtccctca cttccccaaa catggaataa tgttccaaga cataacgaca 240

262

<210> 494
 <211> 306
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(306)
 <223> unsure at all n locations
 <400> 494

ctttcttttg ctcttcatcc attccacacc aaaaagtaac agtttcngtt tcggagggaa 60
 aacacaanac aaaaagcccc ctccccccaa agcaaatac ctttttttct ttcagttatt 120
 caaaaaatgt tcgccgaaga gaatggactc aaggagacc ctagactcca agccatttcc 180
 caagccatca gagtcgtccc tcaactcccc atacatggaa taatgtttcc agacataacg 240
 acattgttgt tggatcacaa ggcgttttaa gacactgtcg acatttttgt ngatcggtac 300
 agagac 306

<210> 495
 <211> 281
 <212> DNA
 <213> Glycine max
 <400> 495

atccattcca caccaaaaag taactccttt cagtttcgga gggaaacaca acacaaaaag 60
 cccctcccc ccaagcaaa tacacctttt tttctttcag ttattcaaaa aatgttcgcc 120
 gaagagaatg gactcaaggg agaccctaga ctccaagcca tttccaagc catcagagtc 180
 gtccctcact tccccatata tggaataatg tttcaagaca taacgacatt gttgttggat 240
 cacaaggcgt ttaaagacat gtcgactttt tgtcgatcgt t 281

<210> 496
 <211> 287
 <212> DNA
 <213> Glycine max
 <400> 496

aaagctcaga cccaaacctt tcttttgctc ttcattcatt ccacaccaa aagtaacagt 60
 ttcagtttcg gagggaaaca caacacaaaa agccccctcc ccccaaagca aatcaccttt 120

ttttctttca gttattcaaa aaatgttcgc cgaaggaatg gactcaaggg agaccctaga 180
 ctccaagcca tttcccaagc catcagagtc gtccctcact tccccatata tggaataatg 240
 tttcaagaca taacgacatt gttgttggat cacaaggcgt ttaaaga 287

<210> 497
 <211> 269
 <212> DNA
 <213> Glycine max
 <400> 497

caaagctcag acccaaacct ttcttttgct cttcatccat tccacaccaa aaagtaacac 60
 cttcagtttc ggaggggaaac acaacacaaa aagccccctc cccccaagc aaatcacctt 120
 tttttctttc agttattcaa aaaatgttcg ccgaagagaa tggactcaag ggagacccta 180
 gactccaagc catttcccaa gccatcagag tcgtccctca cttccccata catggaataa 240
 tgtttcaaga cataacgaca ttgttgttg 269

<210> 498
 <211> 262
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(262)
 <223> unsure at all n locations
 <400> 498

caacaagaca cgcgcttagc gagaatcgcc tctgcaatcc gagtcatccc cgactttcct 60
 aagccaggaa ttttgtttca ggacataacc acgctgcttc tnaacacaaa ggctttcaaa 120
 gacaccattg acttgtttgt ngagaggtac agagatcaaa acatcaatgt tgtcgcagga 180
 gttgaagcta gaggctttat atttgggtcca cccattgcat tagctattgg agcaaaattt 240
 gtcccatga ggaaacccaa ta 262

<210> 499
 <211> 268
 <212> DNA
 <213> Glycine max
 <400> 499

gctttctaaa ttctccaccc ctccgttcca ctgcttcgtc gcaacacggt acaataatgg 60

cttcgaagaa ttctcaacaa gacacgcgct tagcgagaat cgctcttgca atccgagtca 120
 tccccgactt tcctaagcca ggaattttgt ttcaggacat aaccacgctg cttcttgata 180
 caaaggcttt caaagacacc attgacttgt ttgttgagag gtacagagat caaaacatca 240
 atgttgctgc aggagttgaa gctagagg 268

<210> 500
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 500

gaagtgaaga gaatgcgggt tgtttgttgt tccaattcag gcgtgagtgc tttccctagt 60
 tgtcttagat tccctccact gatcgcaatt tcaacaacac cctcttcgat ccgctttcta 120
 aattctccac cctccggtc cactgcttcg tcgcaacacg ttacaataat ggcttcgaag 180
 aattctcaac aagacacgcg cttagcgaga atcgctcttg caatccgagt catccccgac 240
 tttcctaagc caggaatttt gtttcaggac ataaccacgc tgcttcttga taaaaaggct 300
 ttcaaagaca ccattgactt gtttggtgag aggtacagag atcaaaacat caatgttgtc 360
 gca 363

<210> 501
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 501

cccagattcc ctccactcat tgcaatttct tcgatccgct ttctaaattc cacaccctc 60
 cgttccactg cttcgccgcg acaagttaca agaatggctt cgaagaatgc tcaacaagac 120
 acgcgcttag ccagaatcgc ctctgcgatc cgagtcattc ccgactttcc taagccagga 180
 attttgtttc aggacataac cacgctgctt cttgatacaa aggctttcaa agacaccggt 240
 gacttgtttg ttgagaggta cagagatcaa aacatcaatg ttgtcg 286

<210> 502
 <211> 222
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1) ... (222)

<223> unsure at all n locations

<400> 502

ttctaaattc tccacccctc cgttccactg cttcgtcgcg anacgttaca ataatggctt 60
cgaagaattc tcaacaagac acgcgcttag cgagaatcgc ctctgcaatc cgagtcaccc 120
ccgactttcc taagccagga attttggttc aggacataac cacgctgctt cttgatacaa 180
aggctttcaa agacaccatt gacttggttg ttgagaggta ca 222

<210> 503

<211> 285

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(285)

<223> unsure at all n locations

<400> 503

tgccactctt ccacttttcc cttgtcccag attcncctcca ctcattgcaa tttcttcgat 60
ccgcttttcta aattccacac ccctccggtc cactgcttcg ccgcgacaag ttacaagaat 120
ggcttcgaag aatgctcaac aagacacgcg cttagccaga atcgctcttg cgatccgagt 180
catccccgac tttcctaagc caggaatttt gtttcaggac ataaccacgc tgcttcttga 240
tacaaaggct ttcaaagaca ccgttgactt gtttggtgan cttcc 285

<210> 504

<211> 264

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(264)

<223> unsure at all n locations

<400> 504

tgccactctt ccacttttcc cttgtcccag attccctcca cttcattgca atttcttcga 60
tccgctttct aaatnccaca ccctccggtt ccnctgcttc gncgcgacaa gtttacnaga 120
atggcttcga agaatgctca acaagacacg cgcttancca gantcgcttc tgcgatccga 180
gtcatccccg actttcctaa gccaggaatt ttgtttcagg acataaccac gctgcttctn 240
gatacaaagg ctttcaaaga cacg 264

<210> 505
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 505

caggcgtgag tgccactctt ccactcttcc cttgtcccag attcccncca ctcatngcna 60
 ttnccttcgat ccgntttcta aatnccacac ccctccgttc cactgcttcg ccgcgacaag 120
 ttacaagaat ggcttcgaag aatgctcaac aagacacgcg cttagccaga atcgctcttg 180
 cgatccgagn catccccgac tttcctaagc caggaatttt gtttcaggac ataaccncgc 240
 tgctttcttga tacaaaggct ttc 263

<210> 506
 <211> 437
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(437)
 <223> unsure at all n locations

<400> 506

aagacgacag aagggggaaa tgaaaaaagt gacangaant gangagaatg cgggttgttt 60
 gttgttccaa ttcangcgtt agtgctttcc ctagttgtct tanattccct ccactgatcg 120
 caatttcaac aacaccctct tcgatccgcn ttctaaattc tccanccctc cgttccactg 180
 cttcgtcgca acacgttaca ataatggctt cnangaattc tcaacaagga cacgcgctta 240
 acgagaatcg cctctgcaat ccgagtcac cccgactttc ctaagccagg aattttgttt 300
 cangacataa ccacgttgct tcttgataca aangctttca aangacacca ttgacttggt 360
 tgnttaanag gtacaagaga tnagtaacat caatgttgct cccangagtt tgaanctaga 420
 ggcnttaaaa tttgggg 437

<210> 507
 <211> 271
 <212> DNA

<221> unsure
<222> (1)...(281)
<223> unsure at all n locations

<400> 512

ctcttcttct tttcttgtnt ccttttccat tcttcttttt ctctctgtac tcaaactcac 60
ttccccactt atttatacaa tgtcggctta caaagaccag gatacccgtc ttcattggcat 120
caaaactaag attcgtgtcg tcccaatttc cccaaatccg gtattatggt ccaagacatt 180
actactctat tgcttgatcc caaagcattt aaggacacaa tagatttggt cgttgagcgg 240
tacaagggca aaaacatttc tgttggtgca ggaattgaag c 281

<210> 513
<211> 254
<212> DNA
<213> Glycine max

<400> 513

cttttattgc ttcctttccc attcttcatc ttcttctctc tgaaccgtac tcaaactcca 60
ctttcccact tatttataca atgtcggctt acaaagacca ggatccccgt cttcatggca 120
tcaaaactaa gattcgtgtc gtccccaatt tccccaatc cggtcttatg ttcttagaca 180
ttactactct attgcttgat cccaaagcat ttaaggactc aatagatttg ttcgtggagc 240
ggtacaaggg caaa 254

<210> 514
<211> 222
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(222)
<223> unsure at all n locations

<400> 514

ctcgancnnc ttccaagcng cttcttcttt tcttntttcc ttttncattc ttctttttct 60
ctctgtacan aaactcactt ccacacttat taatanataa tnngcttaca aagaccanga 120
taccggtctt natggcatca aaactaatat tcgtgtcgtc cccaatttcc ccaaatccgg 180
tattatgttc caagacatta ctactctatt gcttgatccc aa 222

<210> 515

anctattact cnacancata tgcctctgac gnnccctgntn naagcgaacc cgtccctagct 240
actnaacagn ttctctgggtc actccngcat atggaacgtg ntgggga 287

<210> 518
<211> 261
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(261)
<223> unsure at all n locations

<400> 518

canntctgnt cannaggcta caganagagc aattgacttc atgtatggnt ggttnatgga 60
tccattaana tctggagact atnccnncag catgcganca cttgtgngga caagattacc 120
anagtttnnt gcagagcnat ccnaactacn tattgggttca ttngntntca ttagcctaaa 180
ctattactct acaacatatg cctctgacgc acctgatcta agcgaagccg tcctagctac 240
ttaacngatt ctcttgtcan t 261

<210> 519
<211> 250
<212> DNA
<213> Glycine max

<400> 519

tgttcttatg tgggttatgaa tgtgcttctt ttaggaaaag caaaagggaa ggattgggat 60
cctcttggat tttgtttggt atgagcctct tacaagatca aaggctgaca attttgcagc 120
tcaaagagcc agagactttc atattggatg gtaaaaatct tagcatttgt taactgagga 180
tcctatattg caagtacaag tctttagtta tgaatgtgaa ttttccctg caaagacttt 240
cacacgcttg 250

<210> 520
<211> 239
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 520

aaacatggag cttccactcc tagcacatca ngcactcttt gcactaagct tttgcatctc 60

aattttcttg gcatcgtgtg atgatgattt tctatccgtg aaaaagaatt caagttcatc 120

tccatttcct agcaactttc ttttnggaac tgcactcttct tcatatcagt ttgaaggagc 180

ttacttgact gatggtaagg gactaaataa ctgggatggt ttcactcata agccaggca 239

<210> 521

<211> 251

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(251)

<223> unsure at all n locations

<400> 521

cttagagatg aagaatgtga tagacaagcc gtgaaaaggg cctnnggcttt tgttgtagcc 60

tggtccttag atcccttggt ttttggtgag taccctccng agatgcactc tattctcggg 120

agtcagttgc caagattctc tcctgaggag aagagtctca taaaaggcag catagacttc 180

attggcatca ataactatgg aactctctat gccaaaggact gctccctcac tgcttgctct 240

cttggaacag a 251

<210> 522

<211> 246

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(246)

<223> unsure at all n locations

<400> 522

aaaagattat gagcattatg ccantacntg cttcaaagct tttggagaca gagttaagca 60

ctggattacc ttcaatgagc ctcataactt tgcactccat ggttatgntt taggcattca 120

agcacaggaa gatgttcctt tttgggtcat cttctntgta agaaaggana atcatccact 180

gagccataca ttgttgctcn taacattctc ttgtcacatg ctgctgccta tagaagctac 240

caacta 246

<210> 523
 <211> 255
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

<400> 523

anatagtgtgta aataaatact caattatata tgattcacta tagtattttt aaataatgaa 60
 aaagaaaata tagtaaattgt ttatggcaaa ataaaaatag ggaggacttc cgtaactatg 120
 ctgacttttg cttcaagaca tttggtgatc ggggtgaagca ctgggtaacc ctaaataaac 180
 catatggcta cagcgtgaat gggctacagt ggtggaagtt tgcacccagg tagatgttct 240
 aactacgttg gaaaa 255

<210> 524
 <211> 272
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations

<400> 524

gcaattcaac ngctgacaaa ttggctagcg aaagagcnag agcattcanc ttcaattggt 60
 tcttggaacc aatcatattc ggnaagtacc ctacagagat ggagaacggt cttggaagcc 120
 tcttgcccaa attttccagc tacgaaaaag agaaactcaa gagaggattg gatttcattg 180
 gcgtcaatta ctacacggct ttctatgtcc aagattgcat gtactccgct tgtaaaccag 240
 gacccgggat ctccagaaca gagggttcat ac 272

<210> 525
 <211> 286
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

<400> 525

gcaaaaaatg aaaacccaaa gtgcttctct cctctgtctt tttctctctc ttgctatcct 60
 tttggntaat ngnaatggtn naantnnaat ncaannanch gaangncaan gccacaatgt 120
 ttcacnattc acnagaagcc ttttcccttc nanttttctc tttggaattg gtncttctgn 180
 ttacaaggna gaaggagnag naantgtagn tgggagagga ccaagnatat gggacacaaan 240
 cactagncag cntantgaaa agatttgggn tcatagcacc gngaac 286

<210> 526
 <211> 278
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

<400> 526

ccttgatata ggaatggctc aaatgtaaag ggatattatg tatggctctt gttcgacaat 60
 tttgaatggg cttccgggtt tacatcaaga tttggaatga tttatgtaga ttacaaaaat 120
 gatttgaaga gatacaagan attctctgca tatggtttga gaattttctg aagaaagaaa 180
 ccaaactata tggttctagc aaatagtatt atgaaatttg tttacaaaat agttatatat 240
 atttgtaaata aattatttga tttgtatttg gtcattct 278

<210> 527
 <211> 269
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(269)
 <223> unsure at all n locations

<400> 527

ctcgagncag ctcanagagc tcannatccc tnagtctggg gctggtttac tctgatcctt 60
 tgatgtttgg ggattatcca agctcaatga ggactagagt aggaagcagg ctaccgaaat 120
 tttcgcaatc agaagctgct cttgttaagg gttcattaga ttttgttgga atcaatcatt 180
 acaccacatt ttatgcaaaa gacaattcta ctaatttaat tggaaccctg gctccatgat 240
 tccattgcag actctggngc cgttacccc 269

<210> 528
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 528

caagtctcaa accatggcgt ttagaggagg cactatgttg atattaacaa tgatggcatt 60
 acttgagatt cagatatgct catcggagat aaaccgtgga aactttccaa atggcttcgt 120
 atttggcact gcctcttcag cttttcagta tgaaggggca gtgaaagaag acggaagggg 180
 accctctgtg tgggacactt tttcacatac ttttggcaaa ataattgatt tcagcaatgc 240
 tgatgttgcg gtggatcagt accaccgata cgaagaagat 280

<210> 529
 <211> 259
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 529

cttaaaacca tttgtcacgc tggtacattg ggacctccca caagctcttg aagatgaata 60
 tanggggatt tctcaaacct gaaatagtgt aaataaatac tcaattatat atgattcact 120
 atagtatttt taaataatga aaaagaaaat atagtaaattg tttatggaaa aataaaaata 180
 gggaggactt ccgtaactat gctgactttt gcttcaagac atttggtgat cgggtgaagc 240
 actgggtaac cctaaatga 259

<210> 530
 <211> 259
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(259)
 <223> unsure at all n locations

<400> 530

gggtttgcat ganaccacaa ggataaacta ttacaaaggc tatttgactc aactaaagaa 60
 agcagttgat gatggagcaa atgtgggttg ggaatttgca tggtcantgc ngggataaac 120

agtttgaatc tgactatggc tgatcctggc ccaagtacca tcaccaatgt gtgtggggct 360
 attcnatgcc tagttgttcc tgtcactggc cgccantttg tgattaagcc atatctaacc 420
 aaaatcgatg cacttgg 437

<210> 536
 <211> 376
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(376)
 <223> unsure at all n locations
 <400> 536

agacgacaga anggagagat ggattgatga aaattcacat gccangctac ttcagctcga 60
 tcagcaaggg tgtggcaacc attatggcct cttactccan ttggaatgga gtaaaaatnc 120
 atgctcanca tgatcttatt actggcttcc tcaataatac tctccatttc aagggtttg 180
 tcanttcaga ttttgagggg cttgatagga tcacctctcc acctcgtgca aatatcactt 240
 attcaattta agcaggagtt tctgctggca ttgacatgtt catggttnc aagcattnc 300
 canaattcat agatnttcta accatgttgg tgaaaaataa acacattccc atgagtcnaa 360
 ttgatgatnc antggg 376

<210> 537
 <211> 459
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(459)
 <223> unsure at all n locations
 <400> 537

cttnaggaga ggggcccnngg ttattgagcc ccgncanttg tgaaaatant ttnccatnat 60
 ncccaaattt gnttcaagac ntttgagat tgannttana attggatnac ctttaatnga 120
 cccngtgtng gnggnnnngtn ntggcnnta ntannggttc tttngccctt gaaaaatnct 180
 caaaggattn tgggantngt ccagttggca actnaggcnc tgagcctacn ttgttgccca 240
 cantttgata ttgtcacatg cagctgctgt tcaaagatac cgagagaagt atcaagaaaa 300

ggttggatac tttgcatggt cattgctgga taactttgaa tggagggttg gttacacatc 360
aaggnttggc attgnctatg ttgatttcaa aaccctcaag agatacccta agatgtcagc 420
atactgggtc aagcaactca ttg 443

<210> 540
<211> 253
<212> DNA
<213> Glycine max
<400> 540

gctaattgtg ttggatactt tgcattggtca ttgctggata actttgaatg gaggttgggt 60
tacacatcaa ggtttggcat tgtctatgtt gatttcaaaa ccctcaagag ataccctaag 120
atgtcagcat actggttcaa gcaactcatt gccaaaaaga agtactaata gctgggctga 180
acatctactt tctaagcttc tagttgcttc agataatcat gtttttagtgg ttttggttga 240
gttaaaagta gtt 253

<210> 541
<211> 249
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(249)
<223> unsure at all n locations
<400> 541

ctaattgnggt tggatacttt gcntgggttca ttgctggata actttgaatg gaggttgggt 60
nacacatcan ggtttggcat tgtctatgtn gattncaaaa ccctcangan atancctaag 120
atgncagcat actggntcan gcaactcatt gccannnagn agtactaata gctgggctga 180
acatctactt tctaagcttc tagttgcatc agataatcat gtttttagtgg ttttggttga 240
gttaaaagc 249

<210> 542
<211> 248
<212> DNA
<213> Glycine max
<400> 542

ttttttttgc cataaaagat cattttattc taagacttgc attaatacaag tcacatgatt 60

acagttacag aactactttt aactcaacca aaaccactaa aacatgatta tctgaagcaa 120
 ctagaagctt agaaagtaga tgttcagccc agctattagt acttcttttt ggcaatgagt 180
 tgcttgaacc agtatgctga catcttaggg tatctcttga gggttttgaa atcaacatag 240
 acaatgcc 248

<210> 543
 <211> 249
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(249)
 <223> unsure at all n locations
 <400> 543

ggagttcttg agagaaaacg gcgacaacga nagccgttcc gtctcgcgga gtgacttccc 60
 tcccaacttc atcttcggag ttgccacttc tgcataatcag atagaaggtg cttgtaagga 120
 gggtggtaga ggtcctagca tatgggatgc ctttacacac acggnaggaa aaattcttga 180
 caaaagcaat ggtgatgttg cagttaatca ttatcatcgg tacatggnag atattgatct 240
 natagccna 249

<210> 544
 <211> 252
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations
 <400> 544

ggagttcttg agagaaaacg gcgacaacga aaaccgttcc gtctcgcgga gtgacttccc 60
 tcccaacttc atcttcggag ttgccacttc tgcataatcag atagaaggtg cttgtaagga 120
 gggtggtaga ggtcctagca tatgggatgc ctttacacac acggaaggaa aaattcttga 180
 caaaagcaat ggtgatgttg cagttaatca ttatcatcgg tacatggnag atattgatct 240
 atagccaagt tg 252

<210> 545

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<211>      276
<212>      DNA
<213>      Glycine max

<400>      545

cggcgattga gagggagagt ttgagaatgg tgaagaagga ggagttcttg agagaaaacg   60
gcgacaacga aaaccgttcc gtctcgcgga gtgacttccc tcccaacttc atcttcggag   120
ttgccacttc tgcatatcag atagaagggtg cttgtaagga gggtaggtaga ggtcctagca   180
tatgggatgc ctttacacac acggaaggaa aaattcttga caaaagcaat ggtgatgttg   240
cagttaatca tatcatcggt acatggaaga tattga                               276

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<210>      546
<211>      240
<212>      DNA
<213>      Glycine max

<220>
<221>      unsure
<222>      (1)...(240)
<223>      unsure at all n locations

```

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<400>      546

agcngtgnaa aangctgcag aggcagcaca cgagctgtat tgatactacn ttgctgtacn   60
tcaatttcat gtccaaagtt gtgatgaaat tgaagatgta atcagcagat ctcaatttcc   120
agaaggggtc cttttcggaa caggcacttc ctcttaccag attgaaggag cgtattttga   180
agatggaaag ggtttaagca attgggatgc ttttagtcat acaccaggan agataaaaaa   240

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<210>      547
<211>      263
<212>      DNA
<213>      Glycine max

<220>
<221>      unsure
<222>      (1)...(263)
<223>      unsure at all n locations

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<400>      547

ttttttggtt gcatcatgtc tgccatcact aatcattgga acaaaatgaa aatgctgcag   60
aggcagctaa ganctgtatt gatactgttt tgctgtnttc aatttcatgt ccaaagttgt   120
gatgaaattg aagatgtaat cagcagatct caatttccag aagggttcct tttcggaaca   180
ggcacttcct cttaccagat tgaaggagcg tattttgaag atggaaaggg tttaagcnat   240

```

tgggagcttt tagtcataca cca 263

<210> 548
 <211> 477
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(477)
 <223> unsure at all n locations

<400> 548
 ggaaggattg ggatcctctt ggattttgtt tggatgagc ctcttacaag atcaaaggcc 60
 gacaatttag cagctcaaag agccagagac tttcatgttg gatggttcat tcatcccctt 120
 gtttatggag agtntccaac aaccattcaa aatattgttg ggaatagact ccccaaattc 180
 actagtgaag aagttaaaat cgtgaaaggg ttcaatagat tttgttgga tnanccantt 240
 tentacgnct cnngtttgac cntttaaggc aaaacttaaa ncccangttt ttaangggct 300
 tggaatcccg aattggtnnt ccaanaacgg ggtgnccatt tgnnccaagg ntttttttta 360
 ttgggtttta acgnnccctg ggggggtgtt caaaaaattg gtgggcntaa aaggggaccct 420
 tttgggaaac cccccgngng gttnttccca aaaggggnng ggtnanaccc ggnaanc 477

<210> 549
 <211> 402
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(402)
 <223> unsure at all n locations

<400> 549
 ggatgacgtt taacgaacct cgtgtggtgg ctgctcttgg ctatgataat ggtttctttg 60
 cccctggaag atgctcaaaa gaatatggga attgtactgc tggcaactca ggcactgagc 120
 ctacattgt tgcacacaa ttgatattgt cgcattgcagc anctgttcaa agataccgag 180
 cgaagtacca agaaaagcaa aagggaagga ttgggatcct cttggatttt gtttggtatg 240
 agcctcttac aagatcaaag gctgacaatt ttgcagctca aagagccaga gactttcata 300
 ttggatggtt cattcatccc cttgtttatg gagagtatcc aaaaaccatt caaatattg 360

ttgggaatan actccccaaa ntcactantt aagaanttta aa 402

<210> 550
 <211> 473
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(473)
 <223> unsure at all n locations

 <400> 550

gtttaatgaa cctcgtgtgg tggctgctct tggctatgat aatggtttct ttgcccngg 60
 aagatgctca aaagaatatg ggaattgtac agctggcaac tcaggcactg agccttacat 120
 tgttgccac aatttgatat tgtcacatgc agctgctggt caaagatacc gagagaagta 180
 tcaagaaaag caaaagggaa ggattgggat cctcttggat tttgtttggg atgagcctct 240
 tacaagatca aaggccgaca atttagcagc tcaaagagcc agagactttc atgttggatg 300
 gttcattcat ccccttggtt atggagagta tccaacaacc attcaaaata ttggtgggaa 360
 tagactcccc aaattcacta gtgaaagaaa gttaaaatcc gtgaaagggg tcaatagaat 420
 tttggtngga atcaanccat nttcttcgtc tacatgnatt aaacctatta aac 473

<210> 551
 <211> 276
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(276)
 <223> unsure at all n locations

 <400> 551

ctcaggcact gagccttaca ttgttgccca caatttgata ttntcgcagt cagcagctgt 60
 tcaaagatac cgagcgaagt accaagaaaa gcaaaaggga aggattggga tcctcttgga 120
 ttttgtttgg tatgagcctc ttacaagatc aaaggctgac aattttgcag ctcaaagagc 180
 cagagacttt catattggat ggttcattca tccccttggt tatggagagt atccaaaaac 240
 cattcaaaat attgttggga atagactccc caaatt 276

<210> 552
 <211> 251

aagatcaaag gctgacaatt ttgcagctcc aaagagccca gagactttca tattggatgg 120
 ttcatcctc cccttggtta tggagagtat ccaaaaacca ttcaaaatat tgttgggaat 180
 agactcccca aattcactag tgaagaagtt aaaatcgtga agggttcgat tgattttgtt 240
 ggaatcaacc agtatacta 259

<210> 555
 <211> 232
 <212> DNA
 <213> Glycine max
 <400> 555

gagagaagta tcaagaaaag caaaagggaa ggattgggat cctcttgat tttgtttggt 60
 atgagcctct tacaagatca aaggccgaca atttagcagc tcaaagagcc agagactttc 120
 atgttggatg gttcattcat cccttggtt atggagagta tccaacaacc attcaaaata 180
 ttgttgggaa tagactcccc aaattcacta gtgaagaagt taaaatcgtg ag 232

<210> 556
 <211> 265
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(265)
 <223> unsure at all n locations
 <400> 556

tttaacgaac ctctgtggt ggctgctctt ggctatgata atggtttctt tgcccctgga 60
 agatgctcaa angaatatgg gaattgtact gctggcaact caggcactga gccttacatt 120
 gttgccaca atttgatatt gtccatgcag cagctgttca aagataccga gcgaagtacc 180
 aagaaaagca aaaggggaagg attgggatcc tcttggattt gtttggtatg agcctcttac 240
 aagatcaaag gctgacaatt tgcag 265

<210> 557
 <211> 256
 <212> DNA
 <213> Glycine max
 <400> 557

tagagttaag aattggatga cgtttaacga acctcgtgtg gtggctgctc ttggctatga 60

taatgggtttc ttgccccctg gaagatgctc aaaagaatat gggaattgta ctgctggcaa 120
ctcaggcact gagccttaca ttgttgccca caatttgata ttgtcgcatg cagcagctgt 180
tcaaagatac cgagcgaagt accaagaaaa gcaaaaggga aggattggga tcctcttgga 240
ttttgtttgg tatgag 256

<210> 558
<211> 443
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(443)
<223> unsure at all n locations
<400> 558

aagacgacag aaggggggact ggaatgcagg atttgcttat gcaaagaatg gagtgcctat 60
tggtcctaga gctaattctt attggcttta caatgtacca tggggcatgt acaaatcatt 120
gatatacata aaggaacgtt atggaaaccc aactgttatc ttatctgaaa atggcatgga 180
tgatccgggt aatgtgactc ttcccaaggg ttgcatgac accacaagga taaactatta 240
caaaggctat ttgactcaac taaagaaagc agttgatgat ggagcanatg tggttgggta 300
ctttgcatgg tcattgctgg ataactttga atggagggtg ggttacacat caaggtttgg 360
cattgtctat gttgatttca aaaccctca aganataccc naaagatntn tgggaannng 420
gggtncancc aatgncntta cca 443

<210> 559
<211> 397
<212> DNA
<213> Glycine max
<400> 559

aagacgacag aagggtatga tcctcatcaa tcaaaccta aagtcccagg ctatcaaattg 60
gactggaatg caggatttgc ttatgcaaag aatggagtgc ctattggtcc tagagctaatt 120
tcttattggc ttacaattgt accatggggc atgtacaaat cattgatata cataaaggaa 180
cgttatggaa acccaactgt tatcttatct gaaaatggca tggatgatcc gggtaatgtg 240
actcttccca agggtttgca tgacaccaca aggataaact attacaaagg ctatttgact 300
caactaaaga aagcagttga tgatggagca aatgtgggtg ggtactttgc atggtcattg 360

ctggataact ttgaatggaa gtttgggtta cacatca

397

<210> 560

<211> 505

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(505)

<223> unsure at all n locations

<400> 560

ccgaatttcc ggncgaccc acgcgtccgc ccacgcgtgc gcgctttctt taaccattan 60

gcgtttaaaa tantttctat acngtnnggt aacggggntc tttnggntcg gnttatntga 120

acattgaana tncaaagaac ggagtgccta ttgggtccaan ggcttattct tattggntnt 180

acaacgtacc atggggcatg tncaaancat tgatgtacat aaaggaacgt tatggaaacc 240

caactgagat cttatccgaa aatggcatgg atgatccggg taacgngact cttaccaagg 300

gttttgcaat gacaccacaa ggatnaacta ttacaaaagc tattntgact caactaacga 360

aggcaattna nnattgagct aatgttngtt ggatactttg catcggtcan tgcttggata 420

aacttttgaa tngaannntg ggttaccnnt naanggtttg gcattaggct atgtttgatt 480

tcaaaacctt natnanaacc cctaa 505

<210> 561

<211> 247

<212> DNA

<213> Glycine max

<400> 561

ggctatcaaa tggactggaa tgcaggattt gcttatgcaa agaatggagt gcctattggt 60

cctagagcta attcttattg gctttacaat gtaccatggg gcatgtacaa atcattgata 120

tacataaagg aacgttatgg aaacccaact gttattttat ctgaaaatgg catggatgat 180

ccgggtaatg tgactcttcc caagggtttg catgacacca caaggataaa ctattacaaa 240

ggctatt 247

<210> 562

<211> 250

<212> DNA

<213> Glycine max

<400> 562
aggctatcaa atggactgga atgcaggatt tgcttatgca aagaatggag tgcctattgg 60
tcctagagct aattcttatt ggctttacaa tgtaccatgg ggcatgtaca aatcattgat 120
atacataaag gaacgttatg gaaacccaac tggtatttta tctgaaaatg gcatggatga 180
tccgggtaat gtgactcttc ccaaggggtt gcatgacacc acaaggataa actattacaa 240
aggctatttg 250

<210> 563
<211> 451
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(451)
<223> unsure at all n locations

<400> 563
cgctttcttt aaccattatt gattaaaata ttttctatac atttccataa ctntctcttt 60
tggtttgggt tatatgaaca ttgaagatgc aaagaacgga gtgcctattg gtccaagggc 120
ttattcttat tggctttaca acgtaccatg gggcatgtac aaatcattga tgtacataaa 180
ggaacggtat ggaaccccaa ctgtgttctt atccgaaaat ggcatggatg atccgggtaa 240
cgtgactctt nccaaggggt tgcacgacac cacaaggata aactattaca aaggctattt 300
gactcaacta aagaaggcag ttgatgatgg agctaattgt gttggatact ttgcatggca 360
ttgntggata actttgaatg ganggtgggt tacacatnaa aggnntggca ttggctatgg 420
tgattcnaaa accctaagag aatnccttag a 451

<210> 564
<211> 394
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(394)
<223> unsure at all n locations

<400> 564
ttatatgaac nttgaagatg caaacaacgg aaagcctatt ggtccaaang cttattctta 60

ttngcnttac aacgtaccat ngggcatgtc aatcattga tgcacataaa ngaacnntat 120
 ggaaacccaa ctgcgttctt atccccaaat ggcatggatn atcccgntaa ccnlnactnt 180
 tcccaanggt ttgcatnaca ccacaaggat naactattan naaagctatt tgactcaact 240
 aaanaaagca nttgatgatn gancntaatg nngttngaaa cctttncatg gncanttgnc 300
 tgganaactt taaanngagn ttgggttccc catcaagntt tggcaattnn ccatttntta 360
 atttnaaaaan cccttnanaa naaancctt aaaa 394

<210> 565
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 565

aatcaaccaa tatactacgt actacatgta tgatcctcat caagcaaaac ctaaagtccc 60
 aggctatcaa atggactgga atgcaggatt tgcttatgca aagaacggag tgcctattgg 120
 tccaagggct tattcttatt ggctttacaa cgtaccatgg ggcatgtaca aatcattgat 180
 gtacataaag gaacgttatg gaaacccaac tgtgttctta tccgaaaatg gc 232

<210> 566
 <211> 267
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(267)
 <223> unsure at all n locations

<400> 566

aaccattcaa aatattgttg ggantagact ccccaaattc actagtgaag nagttaaaat 60
 cgtgaagggt tcgattgatt ttgttggaat caaccagtat actacgttct tcatttatga 120
 tctcatcaa tcaaaaccta aagtcccagg ctatcaaattg gactggaatg caggatttgc 180
 ttatgcanag aatggagtgc ctattgggtcc tagagctaatt tcttattggc tttacaattgt 240
 accatggggc atgtacaaat cattgat 267

<210> 567
 <211> 257
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(257)
 <223> unsure at all n locations

<400> 567

gggaatagac tccccaaatt cactagtga gaagttaaaa tcgtgaaggg ttcgattgat 60
 tttgttggaa tcaaccagta tactacgttc tntcatttat gatcctcatc aatcaaaacc 120
 taaagtccca ggctatcaaa tggactggaa tgcaggattt gcttatgcaa agaatggagt 180
 gcctantggt cctagagcta attccttattg gctttacaat gtaccatggg gcatgtacaa 240
 atcattgnta tncataa 257

<210> 568
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 568

gaagaagtta aaatcgtgaa gggttcaata gattttgttg gaatcaacca atatactacg 60
 tactacatgt atgatcctca tcaagcaaaa cctaaagtcc caggctatca aatggactgg 120
 aatgcaggat ttgcttatgc aaagaacgga gtgcctattg gtccaagggc ttattccttat 180
 tggctttaca acgtaccatg gggcatgtac aaatcattga tgtacataaa ggaacgttat 240
 ggaaacccaa ctgtgttctt atccgaaaat ggcattggatg a 281

<210> 569
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 569

caaagaacgg agtgcctatt ggtccaaggg cttattctta ttggctttac aacgtaccat 60
 ggggcatgta caaatcattg atgtacataa aggaacgtta tggaaaccca actgtgttct 120
 tatccgaaaa tggcatggat gatcc 145

<210> 570
 <211> 402
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure

<222> (1)...(402)
 <223> unsure at all n locations

<400> 570

aagacgacag aagggcagtg tacattaccg aaaatggcgt tgcggaatca aagaatgact 60
 cacttgcaat caatgaagcc cgaaaggatg gtattcgaat tagataccat gatggccatc 120
 tcaaatccct gcttcatgcy atcaaagata gagttaatgt gaagggctac tatatatggg 180
 cattttcang atagctttga atgggatgct ggttacacag ctcgatttgg catcatatat 240
 gtggannaca agaacaattt gagtagatac cctaagtcct ctgcgttttg gctgaaaaca 300
 atgctgttac tgcgtttgcc aaatcaacat gatctentat agggtaaann antnngtncn 360
 ncannngncn nngnaannag cggggggctc tanaaggatt ca 402

<210> 571
 <211> 268
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(268)
 <223> unsure at all n locations

<400> 571

gtcaccatag tgactttctt ctttgaacca aaatctaata gtgatgctga tcncaaggca 60
 gcaaggcgag ctctggactt tatgtttggc tggtttgcta atcccattac atttggtgac 120
 tatectgaga gtatgagatc tttagttggg tctagactcc ccacattcac caaagctcaa 180
 tctgaaagtc tcaaagggtc atatgatttt cttggtataa attcattaca cctcaaattt 240
 cgtggaatat gctccaccaa ccaccatt 268

<210> 572
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 572

gttgggtataa attattacac ctcaaatttc gtggaatatg ctccaccaac caccactaac 60
 aagacctatt ttcattggata tgctagccaa actttcttcg accaggaatg gtgtacccat 120
 tggcacaccg actcctctga gctggctctt tatctatccg gaggggaattt ataagctcat 180
 gacatacata agggacaact acaataatcc accagtgtac attaccgaaa atggcgttgc 240

ggaatcaaag aatgactc 258

<210> 573
<211> 185
<212> DNA
<213> Glycine max

<400> 573

caccagtgtg cattaccgaa aatggcggtg cggaatcaaa gaatgactca cttgcaatca 60
atgaagcccg aaaggatggt attcgaatta gataccatga tgggccatct caaatccctg 120
cttcatgcga tcaaagatag agttaatgtg aagggtact atatatgggc attttcagat 180
agctt 185

<210> 574
<211> 163
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(163)
<223> unsure at all n locations

<400> 574

ctaagggaca actacaataa tccaccagtg tacattaccg aaaatggcgt tgcggaatca 60
aagaatgact cacttgcaat caatgaagcc cgaaaggatg gtattcgaat tagataccat 120
gatggccatc tcaaatccct gcttcatgga tcanagatag agt 163

<210> 575
<211> 329
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(329)
<223> unsure at all n locations

<400> 575

agcaatgaaa gcaataagtc cctccttcct ctgccttata attcttgtga cccttttngc 60
tggtagcatt gaaagtgcac cagcaaactg gaagccaagc cattatgctg cacccttcaa 120
taggagtgtt tttcttctgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 578

gcaatgaaag caataagtc ctccttcctc tgccttataa ttcttgtagc ccttttngct 60
 ggtagcattg aaagtgcacc agcaaactg aagccaagcc attatgctgc acccttcaat 120
 aggagtgttt ttccttctgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180
 ggagcagcag ctatagatgg cagaggacca agtatatggg acacctatac taaacagcaa 240
 ccagggaaga ttgggatcat agtgatggaa gtctagcatt gttt 284

<210> 579
 <211> 264
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

<400> 579

gtccctcctt cctctgcctt ataattcttg tgaccctttt ggctggtagc attgaaagtg 60
 caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120
 ctgggtttct atttgaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
 atggcagagg accaagtata tgggacacct atactnnnnc agcaaccagg gaagnttttg 240
 gatcatagat ggaagtctag caat 264

<210> 580
 <211> 226
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(226)
 <223> unsure at all n locations

<400> 580

gtccctcctt cctctgcctt ataattcttg tgaccctttt ngctggtagc attgaaagtg 60
 caccagcaaa cgtgaagcca agccattatg ctgcaccctt caataggagt gtttttcctt 120

ctgggttttct atttgaata ggctctgcag cttaccagat agaaggagca gcagctatag 180
atggcagagg accaagtata tgggacacct atactaaaca gcaacc 226

<210> 581
<211> 258
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(258)
<223> unsure at all n locations

<400> 581

gcaatgaaag caataagtcc ctcttctc tgccttataa ttcttgtgac ccttttngct 60
ggtagcattg aaagtgcacc agcaaactg aagccaagcc attatgctgc acccttcaat 120
aggagtgttt ttcttcttgg ttttctatct ggaataggct ctgcagctta ccagatagaa 180
ggagcagcag ctatagatgg cagaggacca ngtnatggg acacctatac taaaacagca 240
accaggggaag atttggga 258

<210> 582
<211> 255
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(255)
<223> unsure at all n locations

<400> 582

ataagtcctt ccttcctctg ccttataatt cttgtgacct ttttngctgg tagcattgaa 60
agtgcaccag caaacgtgaa gccaaagccat tatgctgcac ccttcaatag gagtggtttt 120
ccttctgggtt ttctatttgg aataggctct gcagcttacc agatagaagg agcagcagct 180
atagatggca gaggaccaag tatatgggac actatactaa acagcaacca gggaagattt 240
gggatcatag tgatg 255

<210> 583
<211> 266
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(266)
 <223> unsure at all n locations

<400> 583

atgaaagcna taagtccttc cttcctctgc cttataattc ttgtgaccct tttngctggt 60
 agcattgaaa gtgcaccagc aaacgtgaag ccaagccatt atgctgcacc cttcaatagg 120
 agtggtttttc cttctgtttt ctatttggaa taggctctgc agcttaccag atagaaggag 180
 cngcagctat agatggcaga ggaccaagta tatgggacac ctatactaaa cagcaaccag 240
 ggaagatttg ggatcatagt gatgga 266

<210> 584
 <211> 275
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations

<400> 584

taagtctntc cttcctctgc cttatanttc ttgtgancct tttngtaggt agcattgaaa 60
 gtgcaccagc aaacgtgaag ccaagccatt atgctgcacc cttcaatagg agtggtttttc 120
 cttctgggttt tctatntggn ntaggctctg cagcttacca gatagaaggn gcagcagcta 180
 tagatggcag angaccaagt atntgggaca ccgatactna acagnaacag ggncnattgg 240
 gatcatngtg atggagncna gncaattgat tntnt 275

<210> 585
 <211> 223
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 585

gtccctcctt cctctgcctt ataattcttg tannccctant ngctggtagc attgaaagtg 60
 caccangcaa acgtgaagcc aagccattat gctgcaccct tcaataggag tgtttttcct 120

tctggttttc tatttggaat aggctctgca gcttaccaga tagaagaggc agcagctata 180
gatggcagag gnccaagtat atgggacacc ttatactaaa cag 223

<210> 586
<211> 239
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(239)
<223> unsure at all n locations

<400> 586

gcaatgaaag caataagtcc ctcccttctc tgccttataa ttcttgtgac ccttttngct 60
ggtagcattg aaagtgcacc agcaaactgt aagccaagcc attatgctgc acccttcaat 120
aggagtgttt ttccctctggt tttctatttg gaataggctc tgcagcttac cagatagaag 180
gagcagcagc tatagatggc agagggacca agtatatggg acacctatac taaacagca 239

<210> 587
<211> 279
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(279)
<223> unsure at all n locations

<400> 587

atcctaataaa catgcgagcn ctggtgggaa gtagattgcc taagttcacc aaatggcaag 60
ccaagctagt gaatgcatca ttgatttta ttggcttaaa ctattactcc tctgggtata 120
ttaatggtgt ccctccaagc aacgacaaac ccaattttct aacagattct cgcaccaaca 180
cttcatttga acgcaatgga agacccttag gtctaagggc cgcttcagtt tggatatact 240
tttatccaag gggacttcta gatcttctgt tatatacca 279

<210> 588
<211> 258
<212> DNA
<213> Glycine max

<400> 588

ctaaaaacat gcgagccctg gtgggaagta gattgcctaa gttcaccaaa tggcaagcca 60

agctagtgaag tggatcattt gattttattg gcttaaacta ttactcctct gggttatatta 120
atggtgtccc tccaagcaac gacaaacca attttctaac agattctcgc accaacactt 180
catttgaacg caatggaaga cccctaggtc taagggccgc ttcagtttgg atatactttt 240
atccaagggg acttctag 258

<210> 589
<211> 278
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(278)
<223> unsure at all n locations
<400> 589

gnntgggaac cattaacaaa aggagagtat cctaaaaaca tgcgagccct ggtgggaagt 60
agattgccta agttcaccaa atgggcaagc cnagctagtg aatggatcat ttgattttat 120
tggcttaaac tattactcct ctggttatat taatggtgtc cctccaagca acgacaaacc 180
caattttcta acagattctc gcaccaacac ttcatttgaa cgcnatggaa gacccctagg 240
tctaagggcc gcttcagttt ggatatactt ttatccaa 278

<210> 590
<211> 266
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(266)
<223> unsure at all n locations
<400> 590

ataatatggc atttaaaggc tatttcgttt tggggcctca tagctcttgt tgtcgttggc 60
acttccaaag ttacatgcga aatagaagca gataaagttt cacctattat tgacttttcc 120
ctcaatcgga acagtttccc tgaaggcttc atctttgggg cggcatcatn cctcctacca 180
gttcgaaggt gcagcanagg aaggtggtag aggaccaagt gtatgggata cttcacccat 240
aaatntccag ataagatcaa ggatgg 266

<210> 591

<211> 281
 <212> DNA
 <213> Glycine max

<400> 591

gaccccttgaa tagatcacat aacatgggca tcattgggca tgcaacacgt ttattggttag 60
 cagcacgtta agatcagttg ttactcgtgc ggaaccacct aaacctgggc ctcttttcga 120
 tcttagttca ttcaatcgcc acagctttcc ggcaggcttc actttcgggg catcatcttc 180
 cgcgtaccag tttgaagggtg cggcaaaaga atatggtaga ggaccaagta tatgggatac 240
 tttcatcaat caacatccag taagatagca gatggaacga a 281

<210> 592
 <211> 429
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(429)
 <223> unsure at all n locations

<400> 592

ccangattan tgccattttg tgggttggtt atcccgggca agctggggga actgccattg 60
 ctgatgtant cnttgggtaca actaaccag gangaagggtt acccatgaca tggtagccac 120
 aagggttactt ggccaaagtg cccatgacaa acatggacat gcgtccaaac ccaacaacan 180
 ggtacccaag aagaacctat agattctaca aangtcctgt antgttccca ttcggacatg 240
 gcctaagtta ctcaanattc anccacagct tancacttgc ccccaaacag gtctcagtgc 300
 ccataatgag cctccaagcc ttgacaaact caaccctctc aagcaaagca nttaangtga 360
 gccatgccaa ttctgatgac tcattggaga tgganttcca cgttgatgtn aaaaaccaan 420
 gctcaatgg 429

<210> 593
 <211> 281
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(281)
 <223> unsure at all n locations

<400> 593

caaaatacat cataagatat ggcattcgac gcttatttcc ttttgggcct catagctctt 60
 gttcttggtta gcacttccaa agttacatgc gncntagaag cagatacagt ttcacctggt 120
 attgacattt cactcaaccg gaacagnttc cagaagggtt catctttggg gcgggatctt 180
 cctcgtacca gttcgaagggt gcagcaaata atggtggtag aggaccaagc gtatgggata 240
 ccttcaccca taattatcct ggtaagatca ttgatagaac a 281

<210> 594
 <211> 271
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

<400> 594
 taagatatgg cattcgacgc ttatttcctt ttgggcctca tagctcttgt tcttggttagc 60
 acttccaaag ttanatgcn antagaagca gatacagttt cacctgttat tgacatttca 120
 ctcaaccgga acagnttcca gaagggttca tctttggggc gggatcttcc tcgtaccagt 180
 tcgaagggtgc agcaaatagat ggtggttagag gaccaagcgt atgggatacc ttcaccata 240
 attatcctgg taagatcatt gatagaagca a 271

<210> 595
 <211> 253
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

<400> 595
 aaaaacatat cacacaatat ggcattcaag ggctatttcc ttctcggcct cgttactctt 60
 gttcttggtta aatcttccaa agttacatgc gaancnagaa tcggttaata cagtttcacc 120
 cattattgac atttcactca atcggaagag nttcccagaa gggttcatat ttggggcggg 180
 atcttcctcg taccagttcg aaggggcagc aaaggaagggt ggtagaggac caagtgtatg 240
 ggataccttc acc 253

<210> 596
 <211> 284
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(284)
 <223> unsure at all n locations

<400> 596

gaaaaacata tcacacaata tgggnattcaa gggntatttc cttctgcggc ntcgttactc 60
 ttgttcttng ntaaattcttc caaagttaca tgccgaancc gaatcagtta atacagtttc 120
 acccattatt gacatttgca ctcaatcgga agagnnttcc cagaagggtt catatttggg 180
 gcgggatctt ccgcgtacca gttcgaaggg gcagcaaagg aaggtggttag aggaccaagt 240
 gtatgggata ccttgcaccc ataattatcc aggaaagatc atgg 284

<210> 597
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 597

gtaagaaagg aaaatcatcc actgagccat acattgttgc tcataacatt ctcttgtcac 60
 atgctgctgc ctatagaagc taccaactac atttcaagga acaacaagga ggtcaaataag 120
 gaatagcact agatgtcatt tgggtatgaac ctataacaga acttgatgaa gacaaagacg 180
 cagcagcaag agctatggac ttttcacttg gatggttcct tgaccactt ttctttggaa 240
 aatatacctct ctcaatggag aaacttgtag ctaagagatt gccggagatt tctgatacag 300
 cctcaaaatt tcttgtggga tcttttgatt ttattggcat aaatcactac acctcagtct 360
 atactcgtaa cgacagga 378

<210> 598
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 598

accaactaca tttcaaggaa caacaaggag gtcaaataagg aatagcacta gatgtcattt 60
 ggtatgaacc tataacagaa cttgatgaag acaaagacgc agcagcaaga gctatggact 120

tttcacttgg atggttcctt gaccacttt tctttggaaa atatcctctc tcaatggaga 180
aacttgtagc taagagattg ccggagattt ctgatacagc ctcaaaattt cttgtgggat 240
ctttggattt t 251

<210> 599
<211> 252
<212> DNA
<213> Glycine max

<400> 599

tatcatcggg acatggaaga tattgatctt atagccaagt tgggatttga tgcttataga 60
ttttcaattt cttggtctcg gattttcccc gatggcttag gaacgaaaat caatgacgaa 120
gggataactt tttataacaa cattattaat ggtcttcttg aaagaggat acaaccttat 180
gtaactttgt accattggga tcttccgctg catcttcacg agtcgatggg aggatgggta 240
aataaacaac tc 252

<210> 600
<211> 418
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(418)
<223> unsure at all n locations

<400> 600

agaacactcc attgttgaca ttgagaagag aagagaagcn ggagaatgca atgggggctt 60
tgtacatgtc agttatggag atactcttctg tctcttctcat attcatatgc tctctcacac 120
caatctcaca gtcacaggga ttacatcaat ctcccccttt tctctttggc acttcttctt 180
cttcgtacca gtatgaagga gcttatttga gtgatggcaa agggataagc aactgggatg 240
tcttcactca caaaccaggt agtatatctg acgaaagcaa cggatgatgtt gctgttgatc 300
aataaccaccg gtatctggag gatattgatc taatggaagc tataaaaggt caatagctac 360
cggttttcaa tatcatgggc aagaattcta ccaaaggaa gatttggaga agtaaaact 418

<210> 601
<211> 278
<212> DNA
<213> Glycine max

<400> 601
 ttcatatgct ctctcacacc aatctcacag tcacagggat tacatcaatc tccccctttt 60
 ctcttttgga cttcttcttc ttctgtaccag tatgaaggag cttatttgag tgatggcaaa 120
 gggataagca actgggatgt cttcactcac aaaccaggta gtatatctga cgaaagcaac 180
 ggtgatgttg ctgttgatca ataccaccgg tatctggagg atattgatct aatggaagct 240
 ataaaagtca atagctaccg gttttcaata tcatgggc 278

<210> 602
 <211> 426
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(426)
 <223> unsure at all n locations

<400> 602
 aaacgacaga aggggatcga agcaaaaaat gaaaacccaa agtgcttctc tcctctgtct 60
 ttttctctct cttgctatcc ttttggctag tggcactgct gcaagtgcaa ctccaagaag 120
 cgcagtgcca agccaccatg tttcaacatt caacagaagc ctttttcctt ccacttttct 180
 ctttggaatt ggttcttctg cttaccaggc agaaggagca gcaagtgtag atgggagagg 240
 accaagcata tgggacacct aactagaca gcatactgaa aagatttggg atcatagcac 300
 cggtgacatg ggaactgant tttatcatcc atacaagggg tgacataaaa attagcgaaa 360
 gaaanttggg ctggactcct tcanattccc caactcaang gtcaagaata ttcccaaaag 420
 ggcaag 426

<210> 603
 <211> 425
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(425)
 <223> unsure at all n locations

<400> 603
 aagacgacag aaggggatcg aagcaaaaaa tgaaaaccca aagtgttctc ctctctgtc 60
 ttttctctc tcttctatc cttttggcta gtggcactgc tgcaagtgca actccaagaa 120

gcgcagtgcc aagccacccat gtttcaacat tcaacagaag cctttttcct tccacttttc 180
tcttttggaaat tgggttcttct gcttaccagg cagaaggagc agcaagtgtg ggtgggagag 240
gaccaagcat atgggacacc ggacacnagg acagcatact gaaaagattt gggatcatag 300
caccggtgac atgggaagtg aatttttaagc anccgagnca anggttacat nanaattgcg 360
aaaggnantt gggccgggac ccttttnanat tccnnaagnt cagggggcaa gaatatgccg 420
aaagg 425

<210> 604
<211> 270
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations
<400> 604

gcggattttc gtggctacgc aaacttctgc ttcaagacct ttggagacag agtcaaatat 60
tgggtcactt tgaatgaacc cttatcattt agtctcaatg gctacaatgg tggcaccttt 120
ggcaccaggt agatgttcaa atacgttgcc aattgtagtg ctggcgattc atccactgaa 180
ccctatatcg ttggacacta cttattactt gcncatgaat ctgctgccac attatacaag 240
acaaatatca ggctcgtcaa aaaggacaat 270

<210> 605
<211> 338
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(338)
<223> unsure at all n locations
<400> 605

tgaaaaccca aagtgcttct ctctctctgc tttttctctc tcttgctatc cttttggcta 60
gtncgcactg ctgcaagtgc aactccaaga agcgcagtg ccaagccacca tgtttcaaca 120
ttcaacagaa gcctttttcc ttccactttt ctctttggaa ttggttcttc tgcttaccag 180
gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240

<220>
 <221> unsure
 <222> (1)...(300)
 <223> unsure at all n locations

<400> 608

gatagcaaga gagaganaaa gacagaggag agangcactg ctgcaagtgc aactccaaga 60
 agcgcagtgc caagccacca tgtttcaaca ttcaacagaa gcctttttcc ttccactttt 120
 ctctttggan ttggttcttc tgcttaccag gcagaaggag cagcaagtgt agatgggaga 180
 ggaccaagca tatgggacac ctacactaga cagcatactg aaaagatttg ggatcatagc 240
 accggtgaca tgggagctga tttttatcat cgatacaagg gtgataaaaa tagcgaaaga 300

<210> 609
 <211> 253
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

<400> 609

gnggcactgc tgcaagtgca actccaagaa gcgcagtgcc aagccaccat gtttcaacat 60
 tcaacagaag cctttttcct tccacttttc tctttggaat tggttcttct gcttaccagg 120
 cagaaggagc agcaagtgta gatgggagag gaccaagcat atgggacacc tacactagac 180
 agcatactga aaagatttgg gatcatagca ccggtgacat gggagctgat ttttatcatc 240
 gatacaaggg tga 253

<210> 610
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 610

caaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60
 ggctagtgcg actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc accatgtttc 120
 aacattcaac agaagccttt ttccttcac tttctctttt ggacttggtt cttctgctta 180
 ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240

ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
gaagcctttt tccttccact tttctctttg ganttgggtc ttctgcttac caggcagaag 180
gagcagcaag tgtagatggg ngaggaccaa gcatatggga cacctacact agacagcata 240
ctgaaaagat ttgggatcat agcaccgggtg acatgggagc tgatt 285

<210> 614
<211> 286
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(286)
<223> unsure at all n locations
<400> 614

caaaaaatga aaacccaaag tgcttctctc ctctgtcttt ttctctctct tgctatcctt 60
ttggctagtn cgcactgctg caagtgaac tccaagaagc gcagtgccaa gccaccatgt 120
ttcaacattc aacagaagcc tttttccttc cacttttctc tttggaattg gttcttctgc 180
ttaccaggca gaaggagcag caagtgtaga tgggagagga ccaagcatat gggacaccta 240
cactagacag catactgaaa agatttggga tcatagcacc ggtgac 286

<210> 615
<211> 186
<212> DNA
<213> Glycine max
<220>
<221> unsure
<222> (1)...(186)
<223> unsure at all n locations
<400> 615

caaacttctg cttcaagacc tttggagaca gagtcaaata ttgggtcact ttgaatgaac 60
cctatcattt agtcctcaat ggctacaatg gtggcacctt tgcaccagggt agatgttcta 120
aataacgttg ccaattgtag tgctggcgat tcatccactg anccctannt nnttggacac 180
tactta 186

<210> 616
<211> 278
<212> DNA

<213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(278)
 <223> unsure at all n locations

<400> 616

gaaaacccaa agtgcttctc tcctctgtct tttctgctc tgcttgctat ccttttggct 60
 agtngcactg ctgcaagtgc aactccaaga agcgcagtgc caagccacca tgtttcaaca 120
 ttcaacagaa gcctttttcc ttccactttt ctctttggaa ttggttcttc tgcttaccag 180
 gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240
 cagcactactg aaaagatttg ggatcatagc accggtga 278

<210> 617
 <211> 277
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 617

cccaaagtgc ttctctctc tgtcttttct tctctcttgc tctcttttgc gctagtngca 60
 ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
 gaagcntttt tccttccact tttctctttg gtggttggtc ttctgcttac caggcagaag 180
 gagcagcaag tgtagatgng agaggaccaa gcatatggga cacctacact agacagcata 240
 ctgaaaagga tttgggatca tagcaccggt gacatgg 277

<210> 618
 <211> 277
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 618

gaaaacccaa agtgcttctc tcctctgtct tttctctctc cttgctatcc ttttggctag 60

tngcactgct gcaagtgcaa ctccaagaag cgcagtgcc aagccaccatg tttcaacatt 120
 caacagaagc ctttttcctn ccacttttct ctttgggaatt ggttcttctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgggacacct acactagaca 240
 gcatactgaa aagattggga tcatagcacc ggtgaca 277

<210> 619
 <211> 271
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations
 <400> 619

aaatgaaaac ccaaagtgt tctctcctct gtctttttct ctctcttgct atccttttgg 60
 ctagtngcac tgctgcaagt gcaactccaa gaagcgcagt gccaaagccac catgttcaac 120
 attcaacaga agcctttttc cttccacttt tctcttttga cttgggttctt ctgcttacca 180
 ggcagaagga gcagcaagt tagatgggag aggaccaagc atatgggaca cctacactag 240
 acagcatant gaaaagattg gggntcatan c 271

<210> 620
 <211> 255
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations
 <400> 620

cccaaagtgc ttctctcctc tgtctttttc tctctcttgc tctccttttg gctagtngca 60
 ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
 gaagcctttt tccttccact tttctctttg gaattgggtt tcttgcttac caggcagaag 180
 gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
 ctgaaaagat ttggg 255

<210> 621
 <211> 260

agatgttcna aatancgttg caattggttag tgnntgggna ttaatcnatt gaaccaata 120
 ncgttggcca ctacttatta cttgctcatn aatctgctgc cacattatnc aagacaaaat 180
 atcaggcncg tcaaaaagga caaattggga tcactaatcc aacacactac tttttgccaa 240
 aatctcaaag tgctgcagat tacaaggcag caagtagag 279

<210> 624
 <211> 255
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations
 <400> 624

tgaaaaccca aagtgttct ctctctgtc tttttctctc tcttgctatc ctttnggcta 60
 gtngcactgc tgcaagtga actccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag ctttttctct tccacttttc tctttggaat tggttcttct gcttaccagg 180
 cagaaggagc agcaagtga gatgggagag gaccaagcat atgggacacc tacactagac 240
 agcatactga aaaga 255

<210> 625
 <211> 254
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(254)
 <223> unsure at all n locations
 <400> 625

agtgttctc tctctgtct ttttctctc cttgctatcc ttttggttag tngcactgct 60
 gcaagtgcaa ctccaagaag cgcagtgcc agccaccatg tttcaacatt caacagaagc 120
 ctttttctct cacttttct ctttggantt ggttcttctg cttaccaggc agaaggagca 180
 gcaagtgtag atgggagagg accaagcata tgggacacct aactagaca gcatactgaa 240
 aagatttggg atca 254

<210> 626

<211> 264
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(264)
 <223> unsure at all n locations

 <400> 626

 gttctaggct cccaaaattc acaaaagctg aatctgaagg tctaaaaaat tccatagatt 60
 ttccttggtg tgaattacta caccacttat tatgcggaac atgctgaacc tgtcagtgcc 120
 aaccgaacct tctacacaga catacnacnn ngctctcagta cggaaaggaa tggctctacat 180
 gttggaaccc cgactgattt gaattggctc tttatctttc caaaggggaat tcattcttcta 240
 ggggcacaca taaaggataa atac 264

<210> 627
 <211> 146
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(146)
 <223> unsure at all n locations

 <400> 627

 tggtaggcacc tttncaccag gtagatgttc taaatacgtt gccaatgtga gtgctggcga 60
 ttcancact gtaccctata tcgttggaaca ctacttatta cttgctcatg aatctgntgc 120
 cacattatac aagacaaaat atcagg 146

<210> 628
 <211> 258
 <212> DNA
 <213> Glycine max

 <400> 628

 cccaaagtgc ttctctctc tgtctttttc tctctcttgc tctcttttg gctagttgca 60
 ctgctgcaag tgcaactcca agaagcgcag tgccaagcca ccatgtttca acattcaaca 120
 gaagcctttt tccttccact tttctctttg gaattgggtc ttctgcttac caggcagaag 180
 gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
 tgaaaagatt tgggatca 258

<210> 629
 <211> 260
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations

<400> 629

aaacccaaag tgnttctctc ctctgtnttt ttctctctct tgctatcctt ttggctagtn 60
 gcactgctgc aantgcaact ccaagaagcg cagtgccaaag ccaccatggt tcaacattca 120
 acagaagcct ttttccttcc acttttctct ntgggtantgg ttcttctgct taccaggcag 180
 aaggagcagc aagtgtagat gggagangac caagcatatg ggacacctac actagacagc 240
 atactgaaaa gattgggatc 260

<210> 630
 <211> 261
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations

<400> 630

ganaacccaa agtgcttctc tcctctgtct ttttctctct cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa cttccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggact tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgta gatgggagag gaccaagcgt atgggacacc tacactagac 240
 agcatactgn naagatttgg g 261

<210> 631
 <211> 271
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations

<212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(261)
 <223> unsure at all n locations
 <400> 634
 gcttctctcc tctgtctttt tctctctctt gctatccttt tggctagtgg cactgctgca 60
 agtgcaactc caagaagcgc agtgccaagc caccatgttt caacattcaa cagaagcctt 120
 tttccttcca cttttctctt tgganttggt tcttctgctt accaggcaga nggagcagca 180
 agtgtagatg ggagaggact aagcatatgg gacacctaca ctagacagca tactgaaaag 240
 atttgggatc atagcaccgg t 261

<210> 635
 <211> 272
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(272)
 <223> unsure at all n locations
 <400> 635
 aatgaaaacc caaagtgctt ctctcctctg tctttttctc tctcttgcta tccttttggc 60
 tagtngcact gctgcaagtg caacttccaa gaagcgcagt gccaaagccac catgnttcaa 120
 cattcaacag aagccttttt ccttccagtt ntctntttgg aattgggttct tcnngcttacc 180
 aggcagaagg agcngcaagt gtananggga gaggaccaag canatgggag anatacacna 240
 gngaggatan tgaaaagntt tggggtcata gc 272

<210> 636
 <211> 248
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(248)
 <223> unsure at all n locations
 <400> 636
 aaaaatgaaa ncccaaagtg cttctctcct ctgtcttttt ctctctcttg ctatcctttt 60

ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc accatgtttc 120
aacattcaac agaagccttt ttccttccac tttctctttt ggacttggtt cttctgctta 180
ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg acacctacac 240
tagacagc 248

<210> 637
<211> 246
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations

<400> 637

aaaatgaaaa cccaaagtgc ttctctcttc tgtctttttc tctctcttgc tctctttttg 60
gctagtngca ctgntgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca 120
acattcaaca gaagcctttt tccttccact tttctctttg ganttggttc ttctgcttac 180
caggcagaag gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact 240
agacag 246

<210> 638
<211> 243
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(243)
<223> unsure at all n locations

<400> 638

cccaaagtgc ttctctcttc tgtctttttc tctctcttgc tctctttttg gctagtngca 60
ctgctgcaag tgcaactcca agaagcgag tgccaagcca ccatgtttca acattcaaca 120
gaagcctttt tccttccact tttctctttg gaattggttc ttctgcttac caggcagaag 180
gagcagcaag tgtagatggg agaggaccaa gcatatggga cacctacact agacagcata 240
ctg 243

<210> 639

<211> 246
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(246)
 <223> unsure at all n locations

 <400> 639

 tgaaaaccca aagtgcttct ctctctgtc tttttctctc tcttgctatc cttttggcta 60
 gtngcactgc tgcaagtgca actccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag ccttttttct tccacttttc tctttgggct tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgtg gatgggagag gaccaagcat atgggacacc tacactagac 240
 agcata 246

<210> 640
 <211> 247
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

 <400> 640

 gaaaacccaa agtgcttctc tcctctgtct ttttctctct cttgctatcc ttttggctag 60
 tngcactgct gcaagtgcaa cttccaagaa gcgcagtgcc aagccaccat gtttcaanca 120
 ttcaacagag ccctttttcc ttccactttt ctctttggan ttggttcttc tgcttaccag 180
 gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctacactaga 240
 cagcata 247

<210> 641
 <211> 270
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(270)
 <223> unsure at all n locations

 <400> 641

gatcgaagca naanatgaaa acccaaagtg gcttctctcc tctgcctttt tctctctctt 60
 ggctaatacct tttgggctag tngcactggc tgcaagtgca actccaagaa gcgcagtgcc 120
 aagccaccat gtttcagcat tcaacagaag cctttttcct tccacttttc tctttggaat 180
 tggttcttct gcttaccagg cagaaggagc agcaagtgtg gatgggagag gnccaagcat 240
 atgggacacc tacactagac agcatactga 270

<210> 642
 <211> 255
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(255)
 <223> unsure at all n locations

<400> 642
 taaatgnaaa cccaaagtgc ttctctcctc tgtctttttc tctctctngc tctccttttg 60
 gctantngca ctgctgcaag tgcaactcca ngaagcgcag tgccaagcca ccatgtttca 120
 acattcaaca gaagcctttt tccttnact tttctctttg gaattgggtc ttctgcttac 180
 caggcagaag gagcagcaag tgtagatggg agaggaccna ncatatggga cacctacact 240
 agacagcata ctgnc 255

<210> 643
 <211> 252
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations

<400> 643
 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcan ccgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcancaa gtgtagatgg gagaggacca agcatatggg 240
 acacctacac ta 252

<210> 644
 <211> 239
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(239)
 <223> unsure at all n locations

<400> 644

tgaaaaccca aagtgcttct ctctctgtc tttttctctc tcttgctatc cttttggcta 60
 gtggcactgc tgcaagtgna antccaagaa gcgcagtgcc aagccaccat gtttcaacat 120
 tcaacagaag cctttttcct tccacttttc tctttggant tggttcttct gcttaccagg 180
 cagaaggagc agcaagtgta gatgggagag gaccaagcat atgggacacc tacactaga 239

<210> 645
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 645

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt cactctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctca ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acacctacac taga 254

<210> 646
 <211> 119
 <212> DNA
 <213> Glycine max

<400> 646

ccgggagagt atgaaatctt cagtaggttc taggctccca aaattcacia aagctgaatc 60
 tgaaggtcta aaaaattcca tagattttct tgggtgtgaat tactacacca cttattatg 119

<210> 647
 <211> 249
 <212> DNA
 <213> Glycine max

<220>

<221> unsure
 <222> (1)...(249)
 <223> unsure at all n locations

<400> 647

cttgctgcct tgnctctgc agcaagtaga nctctggact tcttctntgg ttggtnttct 60
 gatccgggttt tctatggtga ctatccggcg agtatgnant cttcagtagc ntctaggntc 120
 ccanaattca cnaaagctga ntctgaaggt ctanaaantt ccatagnttt tcttggtgtg 180
 nnttantnca ncaactnttn tgcggaacat gctgaacctg tcagtgccaa ccgaacntct 240
 acacagaca 249

<210> 648
 <211> 250
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(250)
 <223> unsure at all n locations

<400> 648

ggaagcaaaa natgaaaacc caaagtgtt ctctctcan tctttttctc tctcttgcta 60
 tccttttggc tagtggcact gctgcaagtg caactccaag aagcgcagtg ccaagccacc 120
 atgtttcaac attcaacaga agcctttttc cttccacttt tctctttgga attggttctt 180
 ctgcttacca ggcagaagga gcagcaagtg tagatgggag aggaccaagc atatgggaca 240
 cctacactag 250

<210> 649
 <211> 237
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(237)
 <223> unsure at all n locations

<400> 649

caaaaaatga aaacccaaag tgcttctctc ctctgtcttt ttctctctnt tgctatcctt 60
 ttggctagtg gcaactgctgc aagtgcact ccaagaagcg cagtgccaaag ccaccatgtt 120
 tcaacattca acagaagcct ttttccttcc acttttctct ttggaattgg ttcttctgct 180

taccaggcag aaggagcagc aagtgtagat gggagaggac caagcatatg ggacacc 237

<210> 650
 <211> 252
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(252)
 <223> unsure at all n locations

<400> 650
 gatcgaagca aaaaatgaaa acccaaagtg cttctgctcc tctgtctttt tctctctctt 60
 gctatccttt tggctagtng cactgctgca agtgcaactc caagaagcgc agtgccaagc 120
 caccatgntt caacattcaa cagaagcctt tttccttcca cttttctctt tggaattggt 180
 tcttctgctt accaggcaga aggagcagca agtgtagatg ggagaggacc aagcatatgg 240
 gacacctaca tt 252

<210> 651
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 651

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acacctacac t 251

<210> 652
 <211> 251
 <212> DNA
 <213> Glycine max
 <400> 652

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctaccctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180

cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac t 251

<210> 653
<211> 257
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(257)
<223> unsure at all n locations

<400> 653

gggacatcga agcaaaaaat gaaaacccaa antgctttct ctctctgtc tttttctctc 60
tcttgctatc cttttggcta ntngcactgc tgcaagtgc actccaagaa gcgcagtgcc 120
aagccaccat ntttcaacat tcaacagaag cctctttcct tccacttttc tctttggaat 180
tggttcttct gcttaccagg cagaaggagc agcaagtgna gatgggagag gaccaagcnt 240
atgggacacc tacacta 257

<210> 654
<211> 270
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(270)
<223> unsure at all n locations

<400> 654

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
ctatcctttt ggctannggc actgctgcaa gtgcanctcc aagaagcgca gtgccaagcc 120
accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt gganttgggt 180
cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
acacctacac ttagacagca tactgaaagg 270

<210> 655
<211> 253
<212> DNA
<213> Glycine max

<220>
 <221> unsure
 <222> (1)...(253)
 <223> unsure at all n locations

<400> 655

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct actgtctttt tctctctctt 60
 gctatccttt tggctagtng cactgctgca agtgcaactc caagaagcgc agtgccaagc 120
 caccatgttt caacattcaa cagaagcctt tttccttcca cttttctctt tgganttggt 180
 tcttctgctt accaggcaga aggagcagca agtgtagatg ggagaggacc aagcatatgg 240
 gacacctaca cta 253

<210> 656
 <211> 270
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(270)
 <223> unsure at all n locations

<400> 656

gggacatcga agcaaaaaat gaaaacccaa agtgctttct nctcctctgt ctttttctct 60
 cctcttgcta tccttttggg ctagtgngca ctgctgcaag tgcaactccc aagaagcgca 120
 gtgccaagcc accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt 180
 ggaattgggt cttctgctta ccaggcagaa ggagcagnaa gtgtagatgg gagaggncca 240
 agcatatggg acacctacnc taganagcnt 270

<210> 657
 <211> 247
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 657

gaaaacccaa agtgcttctc tcacctgtcc tttttctcta nccttgctat ctttttggct 60
 agtngcactg ctgcaagtgc aactccaaga agcgcagtgc caagccacca tgtttcaaca 120

gcctttttcc ttccactttt ctctttggan ttggttcttc tgctttccag 180
gcagaaggag cagcaagtgt agatgggaga ggaccaagca tatgggacac ctncactaga 240
cagcata 247

<210> 658
<211> 254
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(254)
<223> unsure at all n locations

<400> 658

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctncctctctt 60
ngctatcctt ttggctagtn gcactgctgc aagtgcact ccaagaagcg cagtgccaaag 120
ccaccatggt tcaacattca acagaagcct ttttccttcc acttttctct ttggaattgg 180
ttcttctgct taccaggcag aaggagcagc aagtgtagat gggagaggac caagcatatg 240
ggacacctac atag 254

<210> 659
<211> 169
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(169)
<223> unsure at all n locations

<400> 659

cagtgccaaag ccacatgttt caacattcaa cagaagcctt tttccttcca cttttctctt 60
tggaattggt tcttctgctt accaggcaga aggagcagca agtgtagatn nngagaggac 120
caagcatatg ggacacctac actagacagc atactgaaaa gattgggat 169

<210> 660
<211> 267
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(267)

<210> 663
 <211> 247
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

 <400> 663

 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acaccta 247

<210> 664
 <211> 248
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(248)
 <223> unsure at all n locations

 <400> 664

 gggacatcga agcaaaaaat gaaaacccaa agtgcttctc tcctctgtct ttttctctct 60
 cttgctatcc ttttggctag tggcactgct gcaagtgcaa ctccaagaag cgcagtgcc 120
 agccaccatg tttcaacatt cancagaagc ctttttcctt ccacttttct ctttgggaatt 180
 ggttcttctg cttaccaggc agaaggagca gcaagtgtag atgggagagg accaagcata 240
 tgggacac 248

<210> 665
 <211> 248
 <212> DNA
 <213> Glycine max

 <220>
 <221> unsure
 <222> (1)...(248)
 <223> unsure at all n locations

 <400> 665

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatccnttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 ancatgttcc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 gcacctac 248

<210> 666
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 666

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatccnttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 ac 242

<210> 667
 <211> 247
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(247)
 <223> unsure at all n locations

<400> 667

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatccnttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg nngaggaccn nnnatatggg 240
 acacctta 247

<210> 668
 <211> 274
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(274)
 <223> unsure at all n locations

<400> 668

caaaaaatga aaacccaaag tgcttctctc ctgntgtctt tttctctctc ttgctatcct 60
 tttggctagt ngcactgctg caagtncaac tccaagaagc gcagtgccaa gncagcatgt 120
 ttcaacattc aacagaagcc tttttccttc cacttttctc tttgganatg gttcttctgc 180
 ttaccaggca gaaggagcag caagtgtaga tgggagnagn ccaagcatat gggacaccta 240
 catagacagc atactgaaaa gattgggatn atac 274

<210> 669
 <211> 244
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(244)
 <223> unsure at all n locations

<400> 669

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acac 244

<210> 670
 <211> 243
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(243)
 <223> unsure at all n locations

<400> 670

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120

accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca agcatatggg 240
 acc 243

<210> 671
 <211> 251
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(251)
 <223> unsure at all n locations
 <400> 671

gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtngc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt gganttggtt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagaggacca gcatatggga 240
 cacctacact a 251

<210> 672
 <211> 275
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(275)
 <223> unsure at all n locations
 <400> 672

gggaatcctn cgtaaggtaa acggcnaagg tngtaaggaa tcattgccat ctttctactt 60
 tactttgtgg anagctncca gggacaccta cactagacag catactgaaa agatttgga 120
 tcatagcacc ggtgacatgg gagctgattt ttatcatcga tacaaggggtg acatacanca 180
 agcganagan attgggctgg actctttcag attctctatc tcatgggtcaa gaatattccc 240
 aanggcnaagg gagcagttaa ccccttgagg gttaa 275

<210> 673
 <211> 241
 <212> DNA

<213> Glycine max
 <400> 673
 gatcgaagca aaaaatgaaa acccaaagtg cttctctcct ctgtcttttt ctctctcttg 60
 ctatcctttt ggctagtggc actgctgcaa gtgcaactcc aagaagcgca gtgccaagcc 120
 accatgtttc aacattcaac agaagccttt ttccttccac ttttctcttt ggaattgggt 180
 cttctgctta ccaggcagaa ggagcagcaa gtgtagatgg gagagggcca agcatatggg 240
 a 241

<210> 674
 <211> 223
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(223)
 <223> unsure at all n locations

<400> 674
 gaaaacccaa agtgcttctc tcctctgtct ttttctctct cttgctatcc ttttggctag 60
 tggcactgct gcaagtgcaa ctccaagaag cgcagtgcc aagccaccatg tttcaacatt 120
 caacagaagc ctttttccct ccaacttttct ctttggannt ggttcttctg cttaccaggc 180
 agaaggagca gcaagtgtag atgggagagg accaagcata tgg 223

<210> 675
 <211> 286
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(286)
 <223> unsure at all n locations

<400> 675
 gtaacagcaa tggagctgtc ttccagtgca tttgtggtaa tattgttggc agtcgcagct 60
 acagcagtag tctgcaaagt gggtggatct atctttcntg cccagcgatt tcctcnttgg 120
 cattgcttct tcctcttacc agtatgaagg agcttacaag agtgacggca aaggactgag 180
 caactgggat aactacactc acggaccagg tagaagtgta ataatggatg gaagcaatgg 240
 ggatatcgcg attgatcatt atcatcgcta cctggaggat atagat 286

<210> 676
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 676

gttggcagtc gcagctacag cagtactctc aaatggggtg gatctatctt tcttgcccag 60
 cgatttcctc tttggcattg cttcttcctc ttaccagtat gaaggagctt acaagagtga 120
 cggcaaagga ctgagcaact gggataacta cactcacgga ccaggtagaa gtgtaataat 180
 ggatggaagc aatggggata tcgcgattga tcattatcat cgctacctgg aggatataga 240
 tttaatggaa actttgggag t 261

<210> 677
 <211> 260
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(260)
 <223> unsure at all n locations

<400> 677

cagatagaag gagcagcagc tatagatggc agaggaccaa gtatatggga cacctatact 60
 aaacagcaac cagggaagat ttgggatcat agtgatggaa gtctagcaat tgatttttat 120
 caccggtaca agacgacata aagatgggtga nagaagtngg gttggattca tacagatttt 180
 ccatctcatg gtccagaata ttccccaagg gcaagggagc agttaacacc ttgggggtca 240
 agttctacaa cgatctcatt 260

<210> 678
 <211> 263
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 678

agatagaagg agcagcagct atagatggca gaggaccaag tatatccgga cacctatact 60

aaacagcaac canggaagat ttgggatcan agtgatggaa gtctagcaat tgatttttat 120
 caccggtaca agagcacata aagatgggtga aagaagttgg gttggattca tacagatttt 180
 ccatctcatg gtccagnata tttcccccnnng gggcnaggga gcagtaaacac cntnggggggc 240
 ccantctncc aagancncct ttt 263

<210> 679
 <211> 301
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(301)
 <223> unsure at all n locations
 <400> 679

anatgaacca tatggctaca gcgtgaatgg ctacagtggg ggaaattttg caccaggtag 60
 atgttctaac tangttggaa aatgccctgc nggtgattct tccaccgagc cctacattgt 120
 taaccaccac ttaatacttg ctcatggagc agcagtcaat tgctacaaga acaaatacca 180
 ggctcatcag anaggacaaa ttggngtcac catagtgact ttcttctttg aaccaaatac 240
 taatagtgat gctgatcgca aggcagcaag gcgagctctg gacttatgtt tggctggttt 300
 g 301

<210> 680
 <211> 271
 <212> DNA
 <213> Glycine max
 <220>
 <221> unsure
 <222> (1)...(271)
 <223> unsure at all n locations
 <400> 680

angtttgaga attganttcg ttcagatttg aaaatgtggg ttaaggttgt tccttcttct 60
 ccttgcagca ctttctcttt ttcacttagc cgcagcttac tcttaatcgt agcagttttt 120
 cagcagattt cttctttgga acagcttctt cagcttacca gtatgaaggc gcagcacgtg 180
 aagggtggcaa gggacctagt atatgggaca ccttcactgc atagccaccc agatagaata 240
 gcagaccaca gtaatgggga gttgccatga t 271

<210> 681
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 681

aacaaagtaa gagttcactc aatctcactg tggtgtgagt tgtgtgtgag caccaaccaa 60
 caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct ggtgcagacg 120
 cagcggcgga gcccacaaacg gtgcgttttg acaccggggg gttgagcaga gacacctttc 180
 ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt atggcccaca 240
 aagacgggtcg cggcccaagc atttgggacg tcttcatcaa aaaacccggg attgtcgcaa 300
 ataatggcac gggagaagtt tctgttgatc aagtaccatc gctacaaaga agatatagat 360
 ctcatggcca gcctgaattt tgatgcctac cggttctcaa tctcgtggtc cagaattttt 420
 ccaaatggaa ctggccaagt aaattggaaa ag 452

<210> 682
 <211> 357
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(357)
 <223> unsure at all n locations

<400> 682

cttcatcaaa aaacccggga ttgtcgcaaa taatggcacg ggagaagttt ctggtgatca 60
 gtaccatcgc tacaagaag atatagatct catggccagc ctgaattttg atgcctaccg 120
 gttctcaatc tcgtgggtcca gaatttttcc aaatggaact ggccaagtaa attggaangg 180
 tgtagcatac tacaataggt tgatcaatta cttgctagag aaaggtatta ctccatatgc 240
 aaatctctac cattatgatc ttcctttagc acttgaggag aggtacaacg gattattgag 300
 tcgccaagtt gtgaaagatt ttgcagatta tgcagaattt tgtttcaaga cttttgg 357

<210> 683
 <211> 444
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(444)

<223> unsure at all n locations

<400> 683

```

aaacanagta agagttcact caatctcact gtgttgtag ttgtgtgtga gcaccaacca 60
acaatgggtgt ctctgactcc gttatgtttc tttattacct tgttgatcgc tgggtgcagac 120
gcagcggcgga agccccaac ggtgcgtttt gacaccgngg ggttgagcag agacaccttt 180
cccaaaggat tcttattcgg aacggccacg tctgcgtacc aagtggaggg tatggccac 240
aaagacggtc gcggcccaag cttttgggac gtcttcatca aaaaaccgga gattgtcgca 300
aataatggca cgggagaagt ttctgttgat cagtnccatc nctacaaagg aagatataga 360
tctcatggnc agcctgaatt ttgatgccta ccgggttttna atctcgtggg ccagaaattt 420
ttcnaatggn acttgccaa gtaa 444

```

<210> 684

<211> 430

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(430)

<223> unsure at all n locations

<400> 684

```

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtagt tgtgtgtgag 60
caccaacca caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacn cagcggcgga gcccacaaac gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcggg acggccacgt ctgcgtacca agtggagggg 240
atggcccaca aagacgggtc cggnccaagc atttgggacg tcttcatcaa aaaaccggg 300
attgtcgcaa ataatggcac gggagaagtt tctgttgatc aagtaccatc gctacaaaga 360
agatattagg gatctcatgg ccagcctgaa ttttgatgcc taccggttct caatctcgtg 420
gtccagaatt 430

```

<210> 685

<211> 382

<212> DNA

<213> Glycine max

<400> 685


```
caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtagt tgtgtgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga gcccacaaac gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcccaca aagacggtcg cggcccaagc atttgggacg tcttcatcaa aaaacccggg 300
attgtcgcaa ataatggcac gggagaagtt tctgttgatc agtaccatcg ctacaaagaa 360
gatatagatc tcatggccag cc 382
```

```
<210>      686
<211>      277
<212>      DNA
<213>      Glycine max
```

```
<400>      686
```

```
gtaaattgga aaggtgtagc atactacaat aggttgatca attacttgct agagaaaggt 60
attactccat atgcaaactc ctaccattat gatcttcctt tagcacttga ggagagggtac 120
aacggattat tgagtcgcca agttgtgaaa gattttgcag attatgcaga attttggtta 180
tacgactttt ggagatagag ttaagaattg gatgacgttt aacgaacctc gtgtggtggc 240
tgctcttggc tatgataatg gtttctttgc cccggaa 277
```

```
<210>      687
<211>      262
<212>      DNA
<213>      Glycine max
```

```
<400>      687
```

```
gcgacgtctg cgtaccaagt ggagggtatg gccacaaaag acggtcgcgg cccaagcatt 60
tgggacctct tcatcaaaaa acccgggatt gttgcaaata atggcacggg agaagtttct 120
gttgatcagt accatcgcta caaagaagat atagatctca tggccagctt gaattttgat 180
gcctaccggt tctcaatctc gtggtccaga atttttccaa atggaactgg ccaagtaa 240
tggaaggtg tagcatacta ca 262
```

```
<210>      688
<211>      272
<212>      DNA
<213>      Glycine max
```

```
<220>
```

<221> unsure
<222> (1)...(272)
<223> unsure at all n locations

<400> 688

ctaaattgga aaggtgtagc atactacaat aggttgatca attacttgct agagaaaggt 60
attactccat atgcaaactct ctaccattat gatcttcctt tagcacttga ggagagggtac 120
aacggattat tgagtcgcca agttgtgaaa gattttgcag attatggcag aattttgttt 180
caagactttt ggagatagag ttaagaatgg gatgangttn aacgaacctc gtgtgggtggc 240
tgctcttggc tatgataang gttctttgcc cc 272

<210> 689
<211> 271
<212> DNA
<213> Glycine max

<400> 689

tggaataaaa ctatgtgagc taaagtatgt ttaatttgac aggaagatat agatctcatg 60
gccagcttga attttgatgc ctaccggttc tcaatctcgt ggtccagaat ttttccaaat 120
ggaactggcc aagtaaattg gaaagggtgta gcatactaca ataggctgat caattacttg 180
ctagaaaaag gtattactcc atatgcaaat ctctaccatt atgatcttcc tttagcactt 240
gaggagaggt acaacggatt attgagccgg c 271

<210> 690
<211> 368
<212> DNA
<213> Glycine max

<400> 690

aagacgacag aaggggggaca ttatcttttc tcttcacaaa aacaaaaaca aagtaagagt 60
tcactcaatc tcactgtgtt gtgagttgtg tgtgagcacc aaccaacaat ggtgtctctg 120
actccgttat gtttctttat taccttggtg atcgctgggtg cagacgcagc ggcggagccc 180
caaacgggtgc gttttgacac cgggggggtg agcaagagac acctttccca aaggattctt 240
attcggaaacg gccacgtctg cgtaccaagt ggagggtatg gccacaaaag acggtcgcgg 300
cccaagcatt tgggacgtct tcatcaaaaa acccgggatt gtcgcaaata atggcacggg 360
agaagttt 368

<210> 691
 <211> 246
 <212> DNA
 <213> Glycine max

<400> 691

gccaaagtaaa ttggaaaggt gtagcatact acaataggct gatcaattac ttgctagaaa 60
 aaggtattac tccatatgca aatctctacc attatgatct tccttttagca cttgaggaga 120
 ggtacaacgg attattgagc cggcaagttg tgaatgattt tgcagattat gcagaatttt 180
 gtttcaagac ttttggagat agagttaaga attggatgac gtttaatgaa cctcgtgtgg 240
 tggctg 246

<210> 692
 <211> 277
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(277)
 <223> unsure at all n locations

<400> 692

agtaagagtt cactcaatct cactgtgttg tgagttgtgt gtgagcacca accaacaatg 60
 gtgtctctga ctccgttatg tttctttatt accttggtga tcgctggtgc anacgcagcg 120
 gcggagcccc aaacggtgcg ttttgacacc ggggggttga ncagagacac ctttcccaaa 180
 ggattcttat tcggaacggc cacgtctgcg taccaagtgg agggatatggc ccacaaagac 240
 ggtcgcggcc caagcatttg ggacgtcttc atcaaaa 277

<210> 693
 <211> 294
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(294)
 <223> unsure at all n locations

<400> 693

caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtnag 60
 caccaacca caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120

<220>
 <221> unsure
 <222> (1)...(263)
 <223> unsure at all n locations

<400> 696

ctcaatctca ctgtgttggt agtngtgtgt gagcaccaac caacaatngt gtctctgact 60
 ccgttatgtt tctttattac cttgttgacc gctgggtgcag acgcagcggc gganccccaa 120
 acggtgcgtt ttgacaccgg ggggttgagc agagacacct ttcccaaagg attcttattc 180
 ggaacggcca cgtctgcgta ccaagtggag ggtatggccc acaaagacgg tcgcgggcca 240
 agcatttggg acgtcttcat caa 263

<210> 697
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 697

aaaacaaaaa caaagtaaga gttcactcaa tctcactgtg ttgtgagttg tgtgtgagca 60
 ccaaccaaca atggtgtctc tgactccgtt atgtttcttt attaccttgt tgatcgctgg 120
 tgcagacgca ccggcggagc cccaaacgtg cgttttgaca ccgggggggt gagcagagac 180
 acctttccca aaggattctt attcggaacg gccacgtctg cgtaccaagt ggaggggtatg 240
 gcccacaaag acggtcgcgg cccaagcatt tgggacgtct tcac 285

<210> 698
 <211> 287
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(287)
 <223> unsure at all n locations

<400> 698

caaaaacaaa aacaaagtaa ganttcactc aatctcactg tggtgtgagt tgtgtgtgag 60
 caccaacca caatngtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
 ggtgcagacg cagcggcgga ccccaaacgg tgcgttttga caccgggggg ttgagcagag 180
 acacctttcc caaaggattc ttattcgga cggccacgtc tgcgtacca gtggagggta 240

[illegible]

<210>	699
<211>	274
<212>	DNA
<213>	Glycine max

```
<220>
<221>      unsure
<222>      (1)...(274)
<223>      unsure at all n locations
```

<400> 699

ctcaatctca	ctgtgttg	agttgtgtgt	gagcaccaac	caacaatggt	gtctctgact	60
cggttatggt	tctttattac	cttggtgatc	gctgggtgcag	acgcagcggc	gganncccaa	120
acggtgcggt	ttgacaccgg	ggggttgagc	agagacacct	ttcccaaagg	attcttattc	180
ggaacggcca	cgtctgcgta	ccaagtggag	ggatatggccc	acaaagacgg	tcgcggccca	240
aqcattttggg	acgtcttcat	caaaaaaccc	ggga			274

<210>	700
<211>	262
<212>	DNA
<213>	Glycine max

```
<220>
<221>      unsure
<222>      (1)...(262)
<223>      unsure at all n locations
```

<400> 700

ctcaatctca	ctgngttatg	agttatgtgt	gagcnccaac	caacaanggn	gtctctgact	60
accgtnatgg	ttctntatta	ccttgtn gat	cgctgggtgca	gacgcagcgg	cggagcccaa	120
acggngcgtn	ttgacaccgg	ggggntgagc	agagacacct	ttcccaaagg	nttcttattc	180
ggaacggcca	cgtctgcgta	ccaagtggag	ggtatggccc	acaaagacgg	tcgcggccca	240
agcatttggg	acgtctncat	ca				262

<210>	701
<211>	254
<212>	DNA
<213>	Glycine max

<220>	
<221>	unsure
<222>	(1) ... (254)

<223> unsure at all n locations

<400> 701

```
gttcactcaa tctcactgtg ttgtgagtng tgtgtgagca ccaaccaaca atggtgtctc 60
tgactccgtt atgtttcttt attaccttgt tgatcgctgg tgcagancca gcggcggagc 120
cccaaacggt gcgttttgac accgggggggt tgagcagaga cacctttccc aaaggattct 180
tattcggaac ggccacgtct gcgtaccaag tggaggggtat ggcccacaaa gacggtcgcg 240
gccaagcat ttgg 254
```

<210> 702

<211> 264

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(264)

<223> unsure at all n locations

<400> 702

```
caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtgagt tgtgtgtgag 60
caccaaccaa caatgggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcccaca aagacgggtcg cggc 264
```

<210> 703

<211> 261

<212> DNA

<213> Glycine max

<220>

<221> unsure

<222> (1)...(261)

<223> unsure at all n locations

<400> 703

```
acaaaaacaa agtaagagtt cactcaatct cactgtgttg tgagttgtgt gtgagcacca 60
accaacaatg gtgtctctga ctccgttatg tttctttatt accttggtga tcgctgggtgc 120
agacgcagcg gcggancccc aaacgggtgcg ttttgacacc gggggggttga gcagagacac 180
ctttcccaaa ggattcttat tcggaacggc cacgtctgcg taccaagtgg aggggtatggc 240
```



```
caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtagt tgtgtgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga gcccacaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcc 246
```

```
<210> 707
<211> 256
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(256)
<223> unsure at all n locations

<400> 707
```

```
caaaaacaaa aacaaagtaa gagttcactc aatctcactg tgttgtagt tgtgtgtgag 60
caccaaccaa caatggtgtc tctgactccg ttatgtttct ttattacctt gttgatcgct 120
ggtgcagacg cagcggcgga nccccaaacg gtgcgttttg acaccggggg gttgagcaga 180
gacacctttc ccaaaggatt cttattcgga acggccacgt ctgcgtacca agtggagggt 240
atggcccaca aagacg 256
```

```
<210> 708
<211> 246
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (1)...(246)
<223> unsure at all n locations

<400> 708
```

```
caaaaacaaa gtaagagttc actacntctc actgtgttnn nagttgtgtg tgagcaccca 60
ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttgttgat cgctggtgca 120
gacgcagcgg cggagcccca aacggtgcgt tttgacaccg gggggttgag cagagacacc 180
tttcccaaag gattcttatt cggaacggcc acgtctgcgt accaagtgga gggatatggc 240
cacaaa 246
```

<210> 709
 <211> 233
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(233)
 <223> unsure at all n locations

<400> 709

gtngagcacc aaccaacatt ggtgtctctg actncgttat gtttctttat taccttggtg 60
 atcgtggtgc agacgcagcg gcggancccc nnacggtgcg ttttgacacc ggnngggtga 120
 gctgagacac ctttcccaaa ggattcttat tcgnaacggc cacgtntgcg taccatgtgg 180
 agggatatngc ccacaaagat ggtcgcggcc naagcatttg gnacgtcttc acc 233

<210> 710
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 710

caaaaacaaa gtaagagttc actcaatctc actgtgttgt gagttgtgtg tgagcaccaa 60
 ccaacaatgg tgtctctgac tccgttatgt ttctttatta ccttggtgat cgctggtgca 120
 gacgcagcgg cggagcccca aacggtgctt tttgacaccg ggggggtgag cagagacacc 180
 tttcccaaag gattcttatt cggaacggcc acgtctgctt accaagtgga gggatatggc 239

<210> 711
 <211> 424
 <212> DNA
 <213> Glycine max

<220>
 <221> unsure
 <222> (1)...(424)
 <223> unsure at all n locations

<400> 711

cagagaacga ncaagcncaa agccaaagct actagtcata acggggcccc accgcttccg 60
 ggaagtcgaa gctagccgtg gatttggcct cccacttccc cggcgaactc atcaacgccg 120
 attccatgca ggtctaccgc ggctngatg ttctcaccaa caaactccct ntctctcacc 180
 agaacggagt tccgcatcat ctcttgggta ccgtaagccc caacgtggaa ttcactgcc 240

